

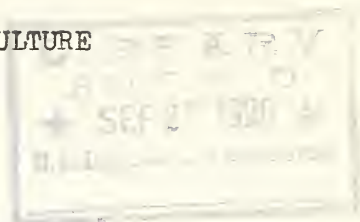
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Bi-464
Sept. '20

235309

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY



BREEDERS OF FUR ANIMALS

(The names of persons and firms having breeding stock for sale are marked with an asterisk (*). The Bureau of Biological Survey is not advised when breeders have sold all of their stock for the year.)

BADGERS

A

Austin Fur Farming Co., West Suffield, Conn.
Danger's Pet Stock Company, Sleepy Eye, Minn.

BEAVERS

Grays Peak Silver Black Fox Fur Ranch Assn.,
3507 W. 32nd Ave., Denver, Colo.

FISHERS

Lawrence V. Grassman, Gervais, Oreg.
*B. F. Tarman, Quincy, Pa.

FOXES, BLUE (Prices quoted range from \$250 to \$300 each.)

Alaska

Fred Anderson, Unalaska.
S. Applegate, 2620 Piedmont Ave., Berkeley, Calif. (Ranch in
N. Bolshanin, Unalaska. Alaska.)
William Dirks, Unalaska.
*J. A. Herbert, Seldovia.
J. D. Jefferson, Valdez.
*Kodiak Fox Farm, Kodiak.
*Laviosa and Nielsen, Ellumar.
C. Ostrom, Valdez, c/o Naked Isle.
U. S. Ritchie, Seldovia.
*A. B. Somerville, (Capt.) Unalaska.
*John Stanier & Louis Van, Valdez.
Clyde A. Thompson, Eagle.
*F. R. Townsend, Katalla.

FOXES, BLACK AND SILVER - (Prices quoted range from \$200 to \$2,750 a pair.)

Alaska

Anchor Point Silver Fox Farm, Seldovia.
Andy Anderson, Petersburg.
*Clement Anderson, Rampart.
George Bull, Chitina.
D. Cadgow, Fort Yukon.
Frank H. Carroll, Copper Center.
Albert E. Edwards, St. Michael.
Geo. A. Flemming, Latouche.
Z. T. Halferty, Kodiak.
*J. A. Herbert, Seldovia.
C. H. Hoyt, Valdez.
*Wm. Kaiser, Seward.
T. D. Lahey, Haines.
*Milligan & Morrison Fur Farm, Hot Springs.
John McCrary, Copper Center.

MEMORANDUM FOR THE DIRECTOR

Subject: [Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

FOXES, BLACK AND SILVER (Continued) - (Prices quoted range from \$200 to \$2,750 a pair.)

Colorado

Grays Peak Silver Black Fox Fur Ranch Ass'n., 3607 W. 32nd Ave.,
Denver.

Rocky Mountain Silver Black Fox Co., Steamboat Springs.

Connecticut

Wm. S. Wetherbee, Middletown.

Maine

Harry E. Berry, Biddeford.

Llewellyn Bryant, North Raymond.

William H. Day, Dover.

John W. Ellis, South Windham.

B. H. Faulkner, Steuben.

*Fidelity Silver Black Fox Company, Woodfords.

Grant Fuller, Stratton.

*Charles C. Garland, Old Town.

*Gay Fox Farming Co., Bolster Mills.

Herbert L. and Orrel A. Gocch, Jacksonville.

*J. A. Guilfooy, Ashland.

*Anthony Holck, Bridgewater.

*Roy W. Johnson, North Berwick.

*C. W. & B. S. Look, Jonesport.

*Merrill Silver Black Fox Co., R. D. No. 2, Dover.

*Robert T. Moore, Onawa.

*Nordstrom & Wallace, Millbridge.

*Gus Norstrom, Millbridge.

*B. C. Perry, Millbridge.

*Portland Silver Black Fox Co., 82 Rackleff St., Portland.

A. A. Randall, Skowhegan.

*J. J. Shaw, Freeport.

Arthur G. Staples, New Vinyard.

*Todd & Moore, Milltown.

*Paul L. West, Lisbon.

Francis L. Wilbur, Franklin.

*Jasper Wyman & Son, Millbridge.

Massachusetts

Geo. O. Bartlett, Wrentham.

*J. C. De Wolf, Mansfield.

*Adney W. Gray, Townsend Harbor.

*F. E. Muzzy, 59 Garfield St., Springfield.

J. Howard Pillman, Ayer.

E. G. Pond, Needham.

H. B. Prescott, Westford.

*Sheffield Silver Black Fox Co., Northampton.

*Silver Fox Ranching Co., 932 Kimball Bldg., Boston.

*Wm. J. Smith, 373 Washington St., Boston.

*Samuel F. Wadsworth, 26 Cummington St., Boston.

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861.

2. The second part is a report from the Secretary of the Treasury, dated January 1, 1861.

3. The third part is a report from the Secretary of the Interior, dated January 1, 1861.

4. The fourth part is a report from the Secretary of the Navy, dated January 1, 1861.

5. The fifth part is a report from the Secretary of the War, dated January 1, 1861.

6. The sixth part is a report from the Secretary of the State, dated January 1, 1861.

7. The seventh part is a report from the Secretary of the War, dated January 1, 1861.

8. The eighth part is a report from the Secretary of the War, dated January 1, 1861.

9. The ninth part is a report from the Secretary of the War, dated January 1, 1861.

FOXES, BLACK AND SILVER (Continued) - (Prices quoted range from \$200 to \$2,750 a pair.)

Michigan

- *Frank Antisdale, R. D. No. 1, Muskegon.
- *F. M. Anderson, 221 Fifth St., Muskegon.
Bauknecht & Joslyn, (Select silver Black Fox Co.,) Muskegon.
- Leo. H. Bell, Carlshend.
- Joseph Capuano, Muskegon.
- *Claude C. Cole, R. D. No. 4, Muskegon.
- P. H. De Vries, Spring Lake.
- *Fred C. Feierabend, Gaylord.
- *H. C. Gordon, R. D. No. 4, Muskegon.
- *Great Lakes Silver Black Fox Co., Muskegon.
- *Wallace Grossman, Sebewaing.
- *S. R. Jansheski, Muskegon. (Office, 128 N. Wayne St., Piqua, Ohio.)
- Geo. R. Joerin, Milford.
- Peter G. Jolman, Muskegon.
- *F. G. Joslyn, Muskegon.
- Charles W. Little, Bad Axe.
- *Charles Metz, Marenisco.
- Michigan Silver Black Fox Company, 184 Lake St., Muskegon.
- *Michigan Silver Black Fox Co., R. D. No. 4, Muskegon.
- *Carl F. Neuman, Grand Rapids.
- Edward A. Parks, Port Austin.
- Peninsular Silver Black Fox Co., Muskegon.
- *C. E. Parkhurst, Spring Lake.
- *Bert R. Plank, Montague.
- E. L. Ransford, R. D. No. 1, Muskegon.
- *Sparta Silver Black Fox Co., Muskegon.
- *L. B. Spofford, Buchanan.
- *E. F. Thatcher, Traverse City.
- Frank Tisdale, Muskegon.
- *A. S. Williams, Muskegon.
- *Wolverine Silver Black Fox Co., Muskegon.
- Hiram Workman, Muskegon.

Minnesota

- *Victor Beck, Toimi.
- *Danger's Pet Stock Co., Sleepy Eye.
- *Kleffman Bros., Hibbing.
- *Theo. W. Maki, Florenton.
- *Northern Black Fox Co., Duluth.
- *Robertson Silver Fox Co., Grand Marais.
- *Arthur Schleicher, Lake City.
- L. C. Slander, Springfield.
- Axel and Peter Sorensen, Baudette.
- A. C. Tilden, Hill City.
- Bert Tippman, R. D. No. 1, Box 31, Hokah.
- *A. S. White, Pine River.
- *Geo. Youngman, Gladstone.

Montana

- *H. A. W. Jacobi, Fort Benton.
- *Montana Silver Black Fox Co., Missoula.

New Hampshire

- *Stoughton & Elliott, Whitefield.
- Harry S. Morgan, Hebron.

New Jersey

- *D. B. Wade, Union, Union County.

FOXES, BLACK AND SILVER (Continued) - (Prices quoted range from \$200 to \$2,750 a pair)

New York

- *Adirondack Mt. Silver Black Fox Co., Utica.
- *Alaska Silver Fox & Fur Farms Co., Plattsburg.
- Central New York Fur Co., 405 Arcade Bldg., Utica.
- *Chas. M. Daniels, Sabattis.
- F. E. Dawley, Fayetteville
- J. P. Ruffus, 21 W. 30th St., New York City.
- Dr. Raymond Knapp, 23 Division St., Amsterdam.
- Roberts & Smith, (Lake George Silver Fox Farm), Bolton Landing.
- *Dr. Geo. V. Webster, Carthage.
- R. T. Williams, Honeye Falls.

North Dakota

M. B. Chase, St. John.

Ohio

- Otto Durr, Northfield.
- John R. Gammeter, Akron.
- *Geo. W. Taylor, Leavittsburg.
- Ward Stoltz, Gettysburg.

Oklahoma

R. S. Lansing, Box 1381, Lawton.

Oregon

Dr. D. C. McNabb, Pendleton.

Pennsylvania

- *Warren Rayner Silver Black Fox Co., Warren.

Vermont

- A. D. Howe, Wilmington.
- *George S. Tuttle, South Ryegate.
- *Vermont Silver Fox Co., Chittenden.

Wisconsin

- *Augustine Bros., Whitehall.
- Banner Silver Fox Co., Reedsburg.
- F. C. Cheatham, Three Lakes.
- *Fromm Bros., Hamburg.
- A. H. Hermann, Polar.
- *Geo. Hornby, Viroqua.
- *Ladysmith Silver Black Fox Co., Ladysmith.
- Medford Silver Black Fox Co., Medford.
- Marathon Silver Black Fox Ranch, Marathon.
- *H. L. Moreland, Wills.
- *Nieman Bros., Hamburg.
- Reedsburg Silver Black Fox Co., Reedsburg.
- Harry M. Solie, Barron.
- Roy W. Schwarz, R. D. No. 1, Naugart.
- Wisconsin Silver Fox Co., Reedsburg.

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part, we consider the case of a single particle. We show that the motion is periodic and that the period is independent of the energy.

3. In the third part, we consider the case of a system of two particles.

4. In the fourth part, we consider the case of a system of three particles.

5. In the fifth part, we consider the case of a system of four particles.

6. In the sixth part, we consider the case of a system of five particles.

7. In the seventh part, we consider the case of a system of six particles.

8. In the eighth part, we consider the case of a system of seven particles.

9. In the ninth part, we consider the case of a system of eight particles.

10. In the tenth part, we consider the case of a system of nine particles.

11. In the eleventh part, we consider the case of a system of ten particles.

12. In the twelfth part, we consider the case of a system of eleven particles.

FOXES, RED AND CROSS - (Prices quoted range from \$10 to \$50 each.)

Emery B. Hall, Whiting, Maine. (Red)
Harry E. Heard, Lincolnville, Maine. (Red)
Roy W. Johnson, North Berwick, Maine. (Cross)
Joseph W. Merrill, Damariscotta, Maine. (Red)
Robert W. Thomas, W. Kennebunk, Maine. (Red)
Charles Metz, Marenisco, Mich. (Cross and Red)
Wm. Jystrup, Raymond, Minn. (Red)
North Star Fur Farm, Springfield, Minn. (Red)
L. H. White, Cogswell, N. Dak. (Red)
Forrest Ferguson, Dyersburg, Tenn. (Red)
F. E. Davis, Whitingham, Vt. (Red)
Geo. Hornby, Viroqua, Wis (Cross and Red)
Nieman Bros., Hamburg, Wis. (Cross and Red)

MARTENS - (Prices quoted \$75 each.)

H. J. Maysock, Box 872, Juneau, Alaska.
*E. T. Seton, Greenwich, Conn.
*Danger's Pet Stock Co., Sleepy Eye, Minn.
*Ernest Cassel, Jr. Chiloquin, Oreg.
S. R. Willis, 128 W. Fifth St., Albany, Oreg.

MINKS - (Prices range from \$15 to \$50 each.)

Ed A. Schmalle, Belmond, Iowa.
*Walter L. Arnold, Willimantic, Maine.
Earl D. Wilkins, 3001 E. Jefferson St., Detroit, Mich.
*Bert Gilbertson, Bagley, Minn.
Leroy Staples, Black Duck, Minn.
*Danger's Pet Stock Co., Sleepy Eye, Minn.
D. S. Crowe, Hewitt, N. J.
F. E. Dawley, Fayetteville, N. Y.
F. P. Baltimore, 527 W. Second St., Albany, Oreg.
S. R. Willis, 128 W. Fifth St., Albany, Oreg.
Fred A. Everest, Box 45 Hillsboro, Oreg.
*B. F. Tarman, Quincy, Pa.
Harold N. Gibbs, Warren, R. I.
Jesse J. Davis, St. Johnsbury, Vt.
O. H. Stone, Baring, Wash.

MUSKRATS - (Price quoted \$5 each.)

Grays Peak Silver Black Fox Fur Ranch Assn., 3607 W. 32nd St.,
Denver, Colo.
Henry M. Lanier, North Raymond, Maine.
Chas. H. Seward, Cambridge, Md.
W. A. Gibbs, Church Creek, Md.
*F. B. Dusette & Son, Bad Axe, Mich.
F. H. Joslyn, Muskegon, Mich.
*Danger's Pet Stock Co., Sleepy Eye, Minn.

CROSSUMS - (Prices quoted range from \$3.50 to \$10 each.)

Gus Schreiber, Aurora, Ind.
*Danger's Pet Stock Co., Sleepy Eye, Minn.
North Star Fur Farm, (Leonard C. Slander, Mgr.), Springfield, Minn.
*Geo. O. Moon, R. D. No. 1, Pleasant Green, Mo.
Howard H. Moyer, Blooming Glen, Pa.
Forrest Ferguson, Dyersburg, Tenn.
J. W. Johnson, Charco, Texas.

1. The first part of the report is a summary of the work done during the year. It is a brief statement of the results of the work, and is intended to give a general idea of the progress made. It is not a detailed account of the work, but a summary of the main results.

2. The second part of the report is a detailed account of the work done during the year. It is a full and complete statement of the work, and is intended to give a detailed account of the progress made. It is a full and complete statement of the work, and is intended to give a detailed account of the progress made.

3. The third part of the report is a summary of the work done during the year. It is a brief statement of the results of the work, and is intended to give a general idea of the progress made. It is not a detailed account of the work, but a summary of the main results.

4. The fourth part of the report is a detailed account of the work done during the year. It is a full and complete statement of the work, and is intended to give a detailed account of the progress made. It is a full and complete statement of the work, and is intended to give a detailed account of the progress made.

5. The fifth part of the report is a summary of the work done during the year. It is a brief statement of the results of the work, and is intended to give a general idea of the progress made. It is not a detailed account of the work, but a summary of the main results.

RACCOONS - (Prices range from \$10 to \$25 each.)

- *Walter L. Arnold, Willimantic, Maine.
- Paul L. West, Lisbon, Maine.
- Silvers B. Abbott, Elwell, Mich.
- F. B. Dusetta & Son, Bad Axe, Mich.
- F. Fletcher Weston, Rose Center, Mich.
- Ben A. Browne, New Ulm, Minn.
- Danger's Pet Stock Co., Sleepy Eye, Minn.
- *J. A. Leffelmacher, Fairfax, Minn.
- North Star Fur Farm, (Leonard C. Slander, Mgr.), Springfield, Mass.
- Roman C. Seifert, New Ulm, Minn.
- *B. F. Tarman, Quincy, Pa.
- *Forrest Ferguson, Dyersburg, Tenn.
- J. W. Johnson, Charco, Tex.

SKUNKS - (Prices quoted range from \$8 to \$25 each.)

Colorado

- *J. M. McCall, Yuma.
- F. W. Rohn, Denver.

Idaho

- Geo. J. Wheeler, American Falls.

Indiana

- *Lester Burris, Centerville.
- Elmer Johnson, Laurel.
- J. H. McKenzie, Brazil.
- *Oddie J. Rodmaker, Sunman.
- Gus Schreiber, Aurora.

Iowa

- E. A. Schmalle, Belmond.

Kansas

- *Bowman & Punray, Stafford.
- Hazen L. Fleming, Genesee.
- P. H. Moletis, Kinsley.

Maine

- *Walter Arnold, Willimantic.
- Harold L. Dolloff, Cumberland Center.
- Roydon L. Hammond, Orono.
- C. J. Leavitt, Cambridge.
- W. G. Sanborn, Woodfords.
- R. F. Stinchfield, Clinton.
- *R. W. Thomas, West Kennebunk.
- Maurice Thorne, West Buxton.

1. The first part of the report deals with the general situation of the country and the progress of the work.

2. The second part of the report deals with the results of the work and the progress of the work.

3. The third part of the report deals with the results of the work and the progress of the work.

4. The fourth part of the report deals with the results of the work and the progress of the work.

5. The fifth part of the report deals with the results of the work and the progress of the work.

6. The sixth part of the report deals with the results of the work and the progress of the work.

7. The seventh part of the report deals with the results of the work and the progress of the work.

8. The eighth part of the report deals with the results of the work and the progress of the work.

9. The ninth part of the report deals with the results of the work and the progress of the work.

10. The tenth part of the report deals with the results of the work and the progress of the work.

11. The eleventh part of the report deals with the results of the work and the progress of the work.

12. The twelfth part of the report deals with the results of the work and the progress of the work.

13. The thirteenth part of the report deals with the results of the work and the progress of the work.

14. The fourteenth part of the report deals with the results of the work and the progress of the work.

15. The fifteenth part of the report deals with the results of the work and the progress of the work.

SKUNKS (Continued) - (Prices quoted range from \$8 to \$25 each.)

Michigan

*Irving A. Atyeo, Belleville.
John W. Bowman, Pinconning.
F. B. Dusette & Son, Bad Axe.
Fred Fry, R. D. No. 4, Sparta.
Philip Krichbaum, Tremont.
J. C. Mortenson & Son, Ann Arbor.
Wm. H. Perk, Coldwater.
Oliver Townsend, Ionia.

Minnesota

*Danger's Pet Stock Co., Sleepy Eye.
*North Star Fur Farm (Leonard C. Slander, Mgr.)? Springfield.
*Leo Pankratz, Springfield.
*Roman C. Seifert, R. D. No. 2, Box 11, New Ulm.
Leroy Staples, Blackduck.

Missouri

Geo. O. Moon, R. D. No. 1, Pleasant Green.

New Jersey

Donald S. Crowe, Hewitt.

New York

R. C. Benz, Jeffersonville.
Fred Hillman, R. D. No. 2, Delanson.
F. E. Ware, R. D. No. 7, Fulton.

North Dakota

*L. H. White, Cogswell.

Ohio

D. C. Budge, Monroeville.
Ira F. McGriff, R. D. No. 1, Arcanum.
Frank Starkey, Woodsfield.
*Harry C. Teeter, Bellville.

Oregon

Guy Nelson, Yamhill.

Pennsylvania

*Geo. A. Brown, R. D. No. 2, York.
*Howard H. Moyer, Blooming Glen.
*Christ Roth, Allenville.
*B. F. Tarman, Quincy.

Tennessee

*Forrest Ferguson, Dyersburg.

Texas

J. W. Johnson, Charco.

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1. The first part of the report is a general introduction to the project, which includes a brief history of the project and a statement of the objectives.

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Journal of Management Studies, 19(1), 67-80.

Journal of Management Studies, 19(1), 67-80.

SKUNKS (Continued) - ((Prices quoted range from \$8 to \$25 each.))

Wisconsin

- *Augustine Bros., Whitehall.
- Joseph Brown, Sullivan.
- Norton Cone (or Cane), Reedsburg.
- *Francis Charles Evans, Tomahawk.
- *Charles W. Gillingham, Richland Center.
- *Kannenberg Bro., Wausau.
- Irvin R. Laubenhamer, Richfield.
- *Arthur Radichel, Kendalls.
- *Rudolph Riedel, Prentice.
- Geo. C. Rockwell, Tunnel City.

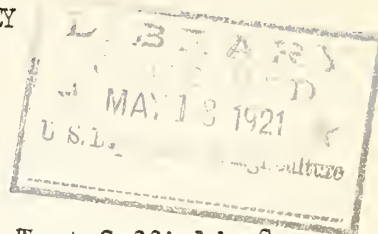
SQUIRRELS

- Alexander & Vaughan, Custer, Ky. (Gray squirrels.)
- *F. B. Dusette & Son, Bad Axe, Mich. (Fox squirrels.)
- J. C. Mortenson & Son, 507 Hill St., Ann Arbor, Mich.
(Black fox squirrels.)

Bi-464
May '21

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

BREEDERS OF FUR ANIMALS *



BADGERS

O. R. Austin,

West Suffield, Conn.

BEAVERS

Grays Peak Silver Black Fox Fur Ranch
Ass'n., 3607 W. 32d Ave.,
Adirondack Mt. Silver Black Fox Co.,
Inc.,

Denver, Colo.

Remsen, N. Y.

ERMINE, RUSSIAN

Tom Arbuckle,

Virginia, Minn.

FISHERS

B. F. Tarman,
Lew Aumock,

Quincy, Pa.
Camas, Wash.

FOXES *

MARTENS

Ernest T. Seton,
O. R. Austin,
Dangers Stock & Fur Farm,
S. R. Willis, 128 W. 5th St.,
Ernest Cassel, Jr.,
Wallace W. Smith,
Lew Aumock,

Greenwich, Conn.
West Suffield, Conn.
Sleepy Eye, Minn.
Albany, Oreg.
Chiloquin, Oreg.
Prairie City, Oreg.
Camas, Wash.

MINKS

O. R. Austin,
F. E. Gage,
Q. P. Chapin,
Bert Gilbertson,
Northern Raccoon Fur Farm,
R. D. 3, Box 39,
A. S. White,
Leroy Staples,
Dangers Stock & Fur Farm,
North Star Fur Farms,
The Shady Fur Farming Co.,
J. L. Fox,
F. E. Dawley,
Ira McGriff, R. D. 1,
S. R. Willis, 128 W. 5th St.,
Fred A. Everest,
John L. Acheson, 6640 Dalzell Place,
Tarman's Fur Farm,
J. L. Davis,
O. H. Stone,
Elmer Jackson,

West Suffield, Conn.
Grass Lake, Mich.
Pigeon, Huron County, Mich.
Bagley, Minn.
Fairfax, Minn.
Pine River, "
Rosy, "
Sleepy Eye, "
Springfield, "
" "
Billings, Mont.
Fayetteville, N. Y.
Arcanum, Ohio.
Albany, Oreg.
Hillsboro, "
Pittsburgh, Pa.
Quincy, "
St. Johnsbury, Vt.
Baring, Wash.
Mosinee, Wis.

* For Fox Breeders, see Form Bi-442.

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

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THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY
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MUSKRATS

Grays Peak Silver Black Fox Fur Ranch
Ass'n., 3607 W. 32d Ave.,
Henry W. Lanier,
W. A. Gibbs,
F. B. Dusotte & Son,
T. H. Joslyn,
Q. P. Chapin,
Bert Tippman,
Dangers Stock & Fur Farm,
The Shady Fur Farming Co.,
Chauncey E. Beebe,

Denver, Colo.
North Raymond, Me.
Church Creek, Md.
Badaxe, Mich.
Muskegon, "
Pigeon, Huron County, Mich.
Caledonia, Minn.
Sleepy Eye, "
Springfield, "
Columbia Falls, Mont.

OPOSSUMS

O. R. Austin,
Gus Schreiber,
F. E. Gage,
Dangers Stock & Fur Farm,
North Star Fur Farms,
George O. Moon,
Howard N. Moyer,
Forrest Ferguson,
J. W. Johnson,

West Suffield, Conn.
Aurora, Ind.
Grass Lake, Mich.
Sleepy Eye, Minn.
Springfield, "
Pleasant Green, Mo.
Blooming Glen, Pa.
Dyersburg, Tenn.
Charco, Tex.

RACCOONS

O. R. Austin,
John Harmon, Jr.,
O. B. Vaughan,
Arthur R. Taylor,
B. W. Brown & A. W. Emerson,
Charles C. Garland,
Walter E. Arnold,
S. B. Abbott,
Q. P. Chapin,
F. Fletcher Wooten,
Bert Tippman,
L. Blake,
Roman C. Seifert,
Dangers Stock & Fur Farm,
North Star Fur Farms,
The Shady Fur Farming Co.,
George O. Moon,
Ernest Bray,
North Woods Silver Fox Farm Co., Inc.,
Joseph Beat,
Tarmen's Fur Farms,
Forrest Ferguson,
J. W. Johnson,
Harley O. Holden,

West Suffield, Conn.
Byron, Ill.
Garfield, Ky.
Biddeford, Me.
Millbridge, Me.
Old Town, "
Willimantic, "
Elwell, Mich.
Pigeon, Huron County, Mich.
Rose Center, Mich.
Caledonia, Minn.
Lake City, "
New Ulm, "
Sleepy Eye, "
Springfield, "
" "
Pleasant Green, Mo.
Arcade, N. Y.
Wilmington, N. Y.
Bellevue, Ohio.
Quincy, Pa.
Dyersburg, Tenn.
Charco, Tex.
Arlington, Vt.

— 4 —

SHEEP

American Karakul Sheep Co.,
American Persian Fur Sheep Co.,
C. O. Gregory,
A. H. Diefendorf,

Fayetteville, N. Y.
Mt. Vision, "
" "
Sprakers, "

SKUNKS

E. W. Rohn,
J. M. McCall,
Ernest T. Seton,
O. R. Austin,
LaBore and Mayewski,
John Harmon, Jr.,
Gus Schreiber,
J. H. McKenzie,
Lester Burris,
E. A. Schmalie,
Hazen L. Fleming,
P. H. Moletor,
Bowman & Pumroy
W. A. Kueny,
R. E. Stinchfield
Charles Gaman, Jr.,
John L. Hamlin,
Clinton J. Leavitt,
Charles C. Garland,
Royden L. Mannond,
Walter L. Arnold,
W. G. Sanborn,
John C. Mortenson & Son,
F. B. Dusette & Son,
Irving A. Atyeo,
Charles C. Briney,
William H. Perk,
Nelson A. Frost,
Alfred H. Newman,
F. E. Gage,
William C. Bernhardt,
Q. P. Chapin,
John W. Bowman,
North Fox Island Fur Farm,
Edwin Prosch,
Bert Tippman,
Northern Raccoon Fur Farm,
R. D. 3, Box 39,
Rom C. Seifert, R. D. 2, Box 11,
Dangers Stock & Fur Farm,
North Star Fur Farms,
Leo Pankratz,
The Shady Fur Farming Co.,
Tom Arbuckle,

Denver, Colo.
Yuma, "
Greenwich, Conn.
West Suffield, Conn.
Byron, Ill.
" "
Aurora, Ind.
Brazil, "
Centerville, Ind.
Belmond, Iowa.
Genesee, Kan.
Kinsley, "
Stafford, "
Walnut, "
Clinton, Me.
Dexter, "
Freeport, "
Harmony, "
Old Town, "
Oronge, "
Willimantic, Me.
Woodfords, "
Ann Arbor, Mich.
Badaxe, "
Belleville, "
Buchanan, "
Coldwater, "
Flint, "
Glenn, "
Grass Lake, "
Harbor Beach, "
Pigeon, Huron County, Mich.
Pinconning, "
Shelby, "
Aitkin, Minn.
Caledonia, "
Fairfax, "
New Ulm, "
Sleepy Eye, "
Springfield, "
" "
" "
Virginia, "

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SKUNKS (Continued)

Geo, O. Moon,
J. L. Fox,
Chauncey E. Beebe,
Donald S. Crowe,
Spencer D. Waite,
Fred Hillman, R. D. 2,
F. E. Ware,
Francis Kirby,
R. C. Benz,
L. W. White,
Clarence Orser,
John Holst,
Bennie Gilbertson,
Ira F. McGriff, R. D. 1,
Harry C. Teeter,
D. C. Burge,
Frank Starkey,
H. M. Wight,
Guy Nelson,
Christ Rogh
Howard H. Moyer,
G. Philip Moore, R. D. 1,
Harold W. Pugh,
Tarman's Fur Farms,
Geo. A. Brown, R. D. 2,
Forrest Ferguson.
J. W. Johnson, C
George Reidenbach,
Andrew Westphal, R. D. 1,
Harry M. Solie,
Walter Schoenherr,
Albert H. Kraus, R. D. 5,
Rudolph Riedel,
Irvin R. Laubenhamer,
Charles W. Gillingham,
Arthur Radichel,
Joseph Brown,
Kannonberg Bro.,

Pleasant Green, Mo.
Billings, Mont.
Columbia Falls, Mont.
Hewitt, N. J.
Cohocton, N. Y.
Delamson, "
Fulton, "
Huntington, "
Jeffersonville, N. Y.
Cogswell, N. D.
Colgate, "
Makoti, "
Milnor, "
Arcanum, Ohio.
Belleville, "
Monroeville, "
Woodsfield, "
Corvallis, Oreg.
Yamhill, "
Allensville, Pa.
Blooming Glen, "
New Castle, "
Oxford, "
Quincy, "
York, "
Dyersburg, Tenn.
Charco, Tex.
Adell, Wis.
Athens, "
Barron, "
Hamburg, "
Oshkosh, "
Prentice, "
Richfield, "
Richland Center, Wis.
Shell Lake, "
Sullivan, "
Wausau, "

SQUIRRELS

O. R. Austin,
Mortenson & Son, John C. (Fox Squirrels)
F. B. Dusette & Son, (Fox Squirrels)

West Suffield, Conn.
Ann Arbor, Mich.
Badaxe, "

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

BREEDERS OF FUR ANIMALS *

BADGERS

O. R. Austin,

West Suffield, Conn.

BEAVERS

Grays Peak Silver Black Fox Fur Ranch
Ass'n., 3607 W. 32d Ave.,
Adirondack Mt. Silver Black Fox Co.,
Inc.,

Denver, Colo.

Remsen, N. Y.

ERMINE, RUSSIAN

Tom Arbuckle,

Virginia, Minn.

FISHERS

B. F. Tarman
Lew Aumock,

Quincy, Pa.

Camas, Wash.

FOXES *

MARTENS

Ernest T. Seton,
O. R. Austin,
Dangers Stock & Fur Farm,
S. R. Willis, 128 W. 5th St.,
Ernest Cassel, Jr.,
Wallace W. Smith,
Lew Aumock,

Greenwich, Conn.
West Suffield, Conn.
Sleepy Eye, Minn.
Albany, Oreg.
Chiloquin, Oreg.
Prairie City, Oreg.
Camas, Wash.

MINKS

O. R. Austin,
F. E. Gage,
Q. P. Chapin,
Bert Gilbertson,
Northern Raccoon Fur Farm,
R. D. 3, Box 39,
A. S. White,
Leroy Staples,
Dangers Stock & Fur Farm,
North Star Fur Farms,
The Shady Fur Farming Co.,
J. L. Fox,
F. E. Dawley,
Ira McGriff, R. D. 1,
S. R. Willis, 128 W. 5th St.,
Fred A. Everest,
John L. Acheson, 6640 Dalzell Place,
Tarman's Fur Farm,
J. L. Davis,
O. H. Stone,
Elmer Jackson,

West Suffield, Conn.
Grass Lake, Mich.
Pigeon, Huron County, Mich.
Bagley, Minn.
Fairfax, Minn.
Pine River, "
Rosy, "
Sleepy Eye, "
Springfield, "
" "
Billings, Mont.
Fayetteville, N. Y.
Arcanum, Ohio.
Albany, Oreg.
Hillsboro, "
Pittsburgh, Pa.
Quincy, "
St. Johnsbury, Vt.
Bering, Wash.
Mosinee, Wis.

MUSKRATS

Grays Peak Silver Black Fox Fur Ranch
Ass'n., 3607 W. 32d Ave.,
Henry W. Lanier,
W. A. Gibbs,
F. B. Dusette & Son,
T. H. Joslyn,
Q. P. Chapin,
Bert Tippman,
Dangers Stock & Fur Farm,
The Shady Fur Farming Co.,
Chauncey E. Beebe,

Denver, Colo.
North Raymond, Me.
Church Creek, Md.
Badaxe, Mich.
Muskegon, "
Pigeon, Huron County, Mich.
Caledonia, Minn.
Sleepy Eye, "
Springfield, "
Columbia Falls, Mont.

OPOSSUMS

O. R. Austin,
Gus Schreiber,
F. E. Gage,
Dangers Stock & Fur Farm,
North Star Fur Farms,
George O. Moon,
Howard N. Moyer,
Forrest Ferguson,
J. W. Johnson,

West Suffield, Conn.
Aurora, Ind.
Grass Lake, Mich.
Sleepy Eye, Minn.
Springfield, "
Pleasant Green, Mo.
Blooming Glen, Pa.
Dyersburg, Tenn.
Charco, Tex.

RACCOONS

O. R. Austin,
John Harmon, Jr.,
O. B. Vaughan,
Arthur R. Taylor,
B. W. Brown & A. W. Emerson,
Charles C. Garland,
Walter L. Arnold,
S. B. Abbott,
Q. P. Chapin,
F. Fletcher Wooten,
Bert Tippman,
L. Blake,
Roman C. Seifert,
Dangers Stock & Fur Farm,
North Star Fur Farms,
The Shady Fur Farming Co.,
George O. Moon,
Ernest Bray,
North Woods Silver Fox Farm Co., Inc.,
Joseph Boat,
Tarman's Fur Farms,
Forrest Ferguson,
J. W. Johnson,
Harley O. Holden,

West Suffield, Conn.
Byron, Ill.
Garfield, Ky.
Biddeford, Me.
Millbridge, Me.
Old Town, "
Willimantic, "
Elwell, Mich.
Pigeon, Huron County, Mich.
Rose Center, Mich.
Caledonia, Minn.
Lake City, "
New Ulm, "
Sleepy Eye, "
Springfield, "
" "
Pleasant Green, Mo.
Arcade, N. Y.
Wilmington, N. Y.
Bellevue, Ohio.
Quincy, Pa.
Dyersburg, Tenn.
Charco, Tex.
Arlington, Vt.

SHEEP

American Karakul Sheep Co.,
American Persian Fur Sheep Co.,
C. O. Gregory,
A. H. Diefendorf,

Fayetteville, N. Y.
Mt. Vision, "
" "
Sprakers, "

SKUNKS

E. W. Rohn,
J. M. McCall,
Ernest T. Seton,
O. R. Austin,
LaBore and Mayewski,
John Harmon, Jr.,
Gus Schreiber,
J. H. McKenzie,
Lester Burris,
E. A. Schmalle,
Hazen L. Fleming,
P. H. Moleter,
Bowman & Punroy,
W. A. Kueny,
R. F. Stinchfield,
Charles Gaman, Jr.,
John L. Hamlin,
Clinton J. Leavitt,
Charles C. Garland,
Royden L. Mannond,
Walter L. Arnold,
W. G. Sanborn,
John C. Mortenson & Son,
F. B. Dusette & Son,
Irving A. Atyeo,
Charles C. Briney,
William H. Perk,
Nelson A. Frost,
Alfred H. Newman,
F. E. Gage,
William C. Bernhardt,
Q. P. Chapin,
John W. Bowman,
North Fox Island Fur Farm,
Edwin Prosch,
Bert Tippman,
Northern Raccoon Fur Farm,
R. D. 3, Box 39,
Rom C. Seifert, R. D. 3, Box 11,
Dangers Stock & Fur Farm,
North Star Fur Farms,
Leo Pankratz,
The Shady Fur Farming Co.,
Tom Arbuckle,

Denver, Colo.
Yuma, "
Greenwich, Conn.
West Suffield, Conn.
Byron, Ill.
" "
Aurora, Ind.
Brazil, "
Centerville, Ind.
Belmond, Iowa.
Genesee, Kan.
Kinsley, "
Stafford, "
Walnut, "
Clinton, Me.
Dexter, "
Freeport, "
Harmony, "
Old Town, "
Orone, "
Willimantic, Me.
Woodfords, "
Ann Arbor, Mich.
Badaxe, "
Belleville, "
Buchanan, "
Coldwater, "
Flint, "
Glern, "
Grass Lake, "
Harbor Beach, "
Pigeon, Huron County, Mich.
Pinconning, "
Shelby, "
Aitkin, Minn.
Caledonia, "

Fairfax, "
New Ulm, "
Sleepy Eye, "
Springfield, "
" "
" "
Virginia, "

SKUNKS (Continued)

Geo. O. Moon,
J. L. Fox,
Chauncey E. Beebe,
Donald S. Crowe,
Spencer D. Waite,
Fred Hillman, R. D. 2,
F. E. Ware,
Francis Kirby,
R. C. Benz,
L. W. White,
Clarence Orser,
John Holst,
Bennie Gilbertson,
Ira F. McGriff, R. D. 1,
Harry C. Teeter,
D. C. Burge,
Frank Starkey,
H. M. Wight,
Guy Nelson,
Christ Rogh,
Howard H. Moyer,
G. Philip Moore, R. D. 1,
Harold W. Pugh,
Tarman's Fur Farms,
Geo. A. Brown, R. D. 2,
Forrest Ferguson,
J. W. Johnson,
George Reidenbach,
Andrew Westphal, R. D. 1,
Harry M. Solie,
Walter Schoenherr,
Albert H. Kraus, R. D. 5,
Rudolph Riedel,
Irvin R. Laubenhamer,
Charles W. Gillingham,
Arthur Radichel,
Joseph Brown,
Kannonberg Bro.,

Pleasant Green, Mo.
Billings, Mont.
Columbia Falls, Mont.
Hewitt, N. J.
Cohocton, N. Y.
Delanson, "
Fulton, "
Huntington, "
Jeffersonville, N. Y.
Cogswell, N. D.
Colgate, "
Makoti, "
Milnor, "
Arcanum, Ohio.
Belleville, "
Monroeville, "
Woodsfield, "
Corvallis, Oreg.
Yamhill, "
Allensville, Pa.
Blooming Glen, "
New Castle, "
Oxford, "
Quincy, "
York, "
Dyersburg, Tenn.
Charco, Tex.
Adell, Wis.
Athens, "
Barron, "
Hamburg, "
Oshkosh, "
Prentice, "
Richfield, "
Richland Center, Wis.
Shell Lake, "
Sullivan, "
Wausau, "

SQUIRRELS

O. R. Austin,
Mortenson & Son, John C. (Fox Squirrels)
F. B. Dusette & Son (Fox Squirrels),

West Suffield, Conn.
Ann Arbor, Mich.
Badaxe, "



UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

BREEDERS OF FUR ANIMALS*

(This list includes the names of all breeders who responded to the questionnaire sent out by this Bureau in 1922. It is not a complete list of the breeders in the United States.)

BEAVERS

Ray Baker, Oakdale, Iowa.

FOXES *

MARTENS

Alaska Silver Fox & Fur Farms Co., Lake Placid, N. Y.
Clare O. Gregory, Mt. Vision, N. Y.
Wallace W. Smith, Prairie City, Ore.
S. R. Willis, Albany, Ore.
Tarman's Fur Farm, Quincy, Pa.
S. R. Metcalf, Randle, Wash.

MINKS

Floyd Gage, Grass Lake, Mich.
Alvin Goff, Lovells, Mich.
Geo. J. Wolf, Roscommon, Mich.
Bert Gilbertson, Eagley, Minn.
Geo. C. Hall & Clyde Blakely, Farmington, Minn.
J. H. Newman, Lakeland, Minn.
Northern Raccoon Fur Farm, R. D. No. 3, Fairfax, Minn.
Stephen C. O'Connell, St. Louis Park, Minn.
D. B. Riebel, Delano, Minn.
Leroy Staples, Rosy, Minn.
Frank J. Brown, Portsmouth, N. H.
Frederick W. Arzt, Westwood, N. J.
Alaska Silver Fox & Fur Farms Co., Lake Placid, N. Y.
Ira F. McGriff, Arcanum, Ohio.
B. F. Wadsworth, Port Clinton, Ohio.
S. R. Willis, Albany, Ore.
Tarman's Fur Farm, Quincy, Pa.
Jesse J. Davis, St. Johnsbury, Vt.
Fromms Fox Farm, Hamburg, Wis.

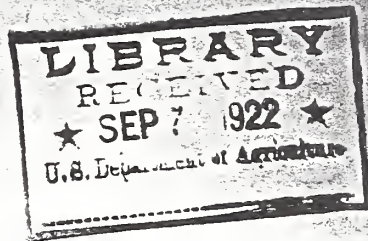
MUSKRATS

Caribou Fur Co., Idaho Falls, Ida.
Roy Hartwell, Hamer, Ida.
Floyd Gage, Grass Lake, Mich.
Chauncey E. Beebe, Columbia Falls, Mont.

* For Fox Breeders see Form Bi-442.

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Aug. '22

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY.



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THE TOAD

This leaflet is prepared for the information of correspondents. With the exception of the section relating to food habits, the technical and other matter represents a compilation of investigations of various authors and is intended to summarize and popularize the various phases of the toad's economy.

INTRODUCTION

Some form of toad can be found in every State in the Union. On the Pacific Coast of North America toads range from the Kenai Peninsula, Alaska, on the north, to La Paz, Lower California, on the south. To the eastward forms other than that with which this account deals occupy the region limited by the Canadian boundary on the north and the Mississippi River on the east, some of them ranging southward into Central and South America.

The common toad, Bufo americanus, with which this account is chiefly concerned, has been found as far north as southern Labrador and in the vicinity of Fort George, on the eastern shore of Hudson Bay, Canada. Its westward range terminates, according to environmental conditions, somewhere between the 95th and 100th meridians. The common toad has also been found in eastern Texas, Louisiana, and Georgia. It is the commonest toad present in the eastern United States and is much more abundant south of the Great Lakes than farther north.

LIFE HISTORY OF THE TOAD.

The time of appearance of the toad in spring varies with locality and temperature. In the Northern States toads have emerged from their winter hibernation retreats as early as the middle of March, but the majority of the individuals appear after April 1. When the toad emerges in spring it proceeds to some shallow pool or overflow of a stream. The males usually precede the females to the water, but do not commence to sing until about the third week in April, or as late as May, according to latitude.

It is not unusual to find hundreds of toads congregating in a small pond during the spawning season. Under normal conditions, if mated in the water, the female begins laying at once, and may lay from four thousand to fifteen thousand eggs, the process being usually completed within one day unless there should be a sudden drop in temperature. The eggs are laid in long spiral strings of jelly. The hatching period depends upon the temperature. Below 65° it requires 8 to 12 days, and above that temperature 3 to 8 days. Toads are thus born in the water and in it spend their early life in a larval, fish-like state, breathing by means of gills. The transformation of a tadpole to a young toad takes place sometime between 50 and 65 days after birth and under abnormal conditions it has required 200 days.

If the weather is moderate, toads may remain active from March to the

middle of November. During the winter months they hibernate in the ground, and statements regarding their being found under leaves, boards, or stones probably refer to temporary refuges sought after a too hasty emergence in spring or before beginning their real hibernation in fall. The toad makes its burrow with its hind legs and always goes down backwards; the hind feet possess a spur which is of assistance in digging. As the animal descends, the dirt fills in over its head. It was formerly thought that toads burrowed down into the mud around ponds and became encysted in balls of clay. It has been found that those toads which fail to burrow below the frost line perish. Newton has found also by a series of well-conducted experiments that the toad usually digs deeper as the frost level comes nearer to it. Terrestrial amphibians can tolerate high temperature with moisture, but they quickly succumb to cold and drought. Toads, which possess drier skins than frogs, habitually avoid the sunshine, and conceal themselves during the day in holes or crevices.

CHECKS ON THE INCREASE IN NUMBERS OF TOADS.

The common toad formerly was rather abundant in almost every locality throughout its range where sufficient cover existed for concealment during the day. To-day, in some sections, toads are becoming very rare, being destroyed by all classes of vertebrates, and by drought in summer, and severe cold in winter.

With the settlement of the country the toad has had to contend not only with man's inventions but also with his domesticated animals. Young toads are diurnal and thus expose themselves to more enemies than do the adults. Ducks, chickens, and guinea fowls eat the young whenever they find them hopping about in the gardens, roadsides, or meadows; and young snakes find baby toads an easy prey. The sewer systems of the large cities destroy large numbers. Adult toads are mainly crepuscular or nocturnal in their feeding and are attracted to the public highways by the lights of passing automobiles, which also have contributed to their destruction. The burning over of the fields and woods in fall is causing a steady decrease in their numbers.

A water beetle has been known to eat nearly 5,000 toad larvae in a single day. Newts, or salamanders, and fishes also destroy large numbers of the young larvae. From the time the eggs are laid, when they may be spoiled by decay or by mold (*Saprolegnia*), until death of adults of old age, there is no period when larva or adult is not subject to attack. When ponds dry up during May and June, large numbers of tadpoles are killed. Many young toads which have just emerged perish before they find some damp sheltered retreat. Probably many of the young succumb during severe cold in winter because they do not burrow so deep in the soil as do the more experienced and stronger adults.

LONGEVITY

In spite of the dangers and natural enemies they are exposed to, some toads live for many years. One account, which is no doubt authentic, concerns

a toad which was accidentally killed when it was known to be 36 years old. Another account more interesting than realistic relates to toads found in terra-cotta vases near Orsay, France, which according to tradition were dressed in green velvet by a sorceress, and were thought to be 200 years old. Statements which relate to toads being found sealed up in rocks or walls or within cavities in living trees usually are inventions or can be explained in an entirely different manner from the account given by the authors. Buckland has conducted some careful experiments along this line. Toads were confined in especially constructed cavities in blocks of limestone and sandstone, and these blocks were buried three feet deep in the garden. The toads confined with sandstone were found dead when the boxes were opened at the end of 13 months; those confined with limestone died before the end of two years. Brooks has shown experimentally that a toad can live a year when sealed up within a block of limestone. It is known that a toad can live for some time without food, but the duration of an enforced period of starvation depends largely on the temperature, that is, on whether or not the toad is kept in a state of hibernation.

POISONOUS SECRETIONS OF TOADS.

In most toads the skin is covered with warts, which are more closely aggregated on the sides of the neck than elsewhere, and these, together with a pair of large glandular masses (the parotoid glands) situated behind the eyes, secrete a milky poisonous fluid whenever the animal is molested. This secretion protects the toad against most animals, but not against snakes or birds of prey. Skunks are known to eat toads, but before doing so they are said to roll them about roughly with their paws until the poison has been discharged from the glands and rubbed off. A dog may bite a toad once, but the experience usually proves to be so disagreeable, because of the effect on the mucous membrane of the mouth, that he rarely can be induced to repeat the performance. The secretion is an acrid irritant, causing pain in cuts and producing a bitter astringent feeling in the mouth. Some writers believe the female lacks this fluid during the breeding season while the male at the same time has an over-abundant supply of it.

According to Madame Phisalix, toads possess two distinct types of glands, which secrete venom of different properties, one type producing a mucous and the other a granular venom. While the mucous glands are distributed over the entire body, they are principally found on the abdomen. The mucous secretion produced is an alkaloid which acts as a narcotic, its effect being confined to the nerve centers. Glands situated on the back, together with the parotoids behind the neck and connected with them, secrete granular acid venom which acts as a convulsive.

Some of the frogs also produce these venoms in large quantities. The Choco Indians, at San Juan, Granada, employ a venom obtained from Phylllobates melanorrhinus to poison their arrowheads. It is said that the Indians of Colombia utilize the secretions of Dendrobates tinctorius for the same purpose. The Indians have found a very easy way to secure this poison. The animal is held over a fire and the secretion is then scraped off. Sufficient venom is obtained to poison 50 arrows, and these are principally used for shooting

monkeys. The same poison is used by dealers to produce yellow feathers on the Amazon green parrots. The blue and green feathers of the head and neck are plucked out, and these areas are then rubbed with the back of a living frog. When the feathers grow out again they are of a yellowish tint, instead of green or blue.

The venoms of batrachians, like those of snakes, produce fatal results only when introduced into the circulatory system.

TRADITIONS AND LEGENDS

The toad is not an attractive animal and it has always been the object of curious beliefs or superstitions. Small boys believe that if one is killed and turned on its back there will be rain before night. For ages the general public has held to the belief that warts were produced by handling toads. Other traditions credit the toad with the power of poisoning infants with its breath; of bringing good fortune to the house in the new-made cellar of which one is found; of curing children of stammering if rubbed on the back of the neck; and of causing a cow to go dry or give bloody milk, if she accidentally kills a toad while being driven home from the pasture. The works of the early writers on natural history teem with vague unsubstantiated accounts of the venomous qualities of the breath and sputum of the toad, the medicinal value of toad skins for treating certain ailments, and the valuable toadstone or jewel to be found in its head.

FOOD HABITS

The common toad is chiefly terrestrial even though at certain seasons of the year it is found in the vicinity of, or floating in, shallow streams, ponds, or temporary pools of water. It is more or less crepuscular. In capturing various forms of animal life it shows that dead or motionless food is of little interest. Only moving objects, apparently, make any impression on its sensory apparatus, but motion perceived, the toad will refuse no insect, spider, millipede, or snail which it can swallow. A toad's tongue is attached at the front end of the mouth, and is free behind. It is thus an organ especially adapted for flinging forward and capturing insects and other active forms of animal life. Frequently objects are accidentally swallowed which have no direct food value, such as the needles of various coniferous trees. Toads have even swallowed small marbles which were rolled in front of them, and small boys have many times fed toads with burning match heads, which the victim perhaps mistook for fireflies.

FOOD OF THE TOAD

An examination of the stomachs of 502 common toads, Bufo americanus, has served to corroborate in a general way the previous research of Kirkland (published in Farmers' Bulletin 196). Animal matter constitutes 89 per cent of the total food for the season. Vegetable matter forms more than 8 per cent, but since it consists of the needles of various coniferous trees, grasses, bits of rotten wood and bark, and seeds of various plants, as well as leaves, this

portion must have been swallowed by accident and can not properly be classed as food. Inorganic material found in the stomachs averages about 2 per cent of the total and consists mainly of sand, gravel, or small pebbles, and in a few instances of coal and ashes.

Earthworms, sowbugs, snails, spiders, millipeds, and insects are the main types represented in the animal food. Earthworms were found in only six stomachs and represent less than 1 per cent of the total food, while insects were found in practically every stomach and comprise nearly 77 per cent.

Small forms of Crustacea, known locally as sowbugs, forms which prove nuisances in greenhouses because of their habit of feeding on the roots of flowering plants, as pansies, violets, and the like, comprise less than 1 per cent. Snails compose a little more than 1 per cent of the total food for the season.

Long-legged, spiderlike animals, which from their prevalence during the haying season have been called harvestmen and are known also as daddy-longlegs, were identified in 46 stomachs and constitute nearly 1 per cent of the season's food of the toad. Spiders are eaten throughout the season, but, while nearly 600 of them were found in the 500 stomachs examined, they constitute only 2.8 per cent of the total food. Millipeds were present in about one of every five stomachs examined, the largest number found in a single stomach being 70.

Beetles (Coleoptera) are taken throughout the season and form more than 42 per cent of the total food. These represent 56 families, but the ground beetles, scarabaeids, weevils, darkling beetles, click beetles, and rove beetles, in the order named, are most commonly eaten. The Carabidae, or ground beetles, constitute the largest element of the food furnished by the Coleoptera, approximately 18 per cent of the toad's food being from this source. In point of numbers taken, most of the carabids are those known to be plant-feeding beetles. The dung beetles and leaf-chafers, or scarabaeids, form the second largest item under the Coleoptera, as they contribute 7 per cent of the total food. In 215 of the 502 stomachs examined 573 weevils, representing 93 forms, were present. Click beetles constitute 2 per cent of the season's food. While rove beetles (Staphylinidae) are rather frequently eaten, they are usually of small size, and in consequence form little more than 1 per cent of the total food. Many other families of beetles were taken by toads in varying proportions and of these the leaf beetles, longhorned beetles, ladybird beetles, and fireflies are the most important. It may be stated that in general toads will eat any beetle that happens to come within reach and that the relative percentages of the various families of beetles found in the course of the stomach examinations agree very closely with the abundance in individuals of those families which live on or near the ground.

In all months except May, ants formed the largest single item in the toad's food. The relative proportions of ants to other Hymenoptera, including ichneumons, in the food, also show how closely the terrestrial

feeding habits of the toad influence its captures of members of this order. Since the total bulk of Hymenoptera other than ants taken during the entire season amounts to only 1.5 per cent, their destruction is of relatively little importance.

Caterpillars (Lepidoptera) were identified in 179 stomachs, being identified as cutworms in 46 cases. Notwithstanding the abundance of grasshoppers and crickets (Orthoptera) in most places, they form a small portion of the toad's food. Flies (Diptera) belonging to 28 families were identified in the stomach contents, and although taken rather frequently, they constitute only 2 per cent of the season's food; while many are innocuous forms, others represent predacious, carnivorous, or blood-sucking species. Bugs (Hemiptera) form about 2 per cent of the total food for the season, although during May they constitute nearly 8 per cent. Caddis flies (Trichoptera) constitute 2 per cent of the food in July, but average for the entire season less than 1 per cent.

CONCLUSIONS

The evidence for and against the toad as shown by the stomach contents of 502 common toads may be summarized as follows:

Toads are beneficial when they eat myriapods, sowbugs, Orthoptera, May beetles, leaf beetles, weevils, and caterpillars. The percentage by bulk of that portion of the total food which consists of noxious animals is not offset by an equal amount of animals beneficial to man. The number of beneficial carabid beetles, ladybird beetles, ichneumons, and spiders destroyed by toads does not seriously disturb the balance of nature. Under certain conditions, as in greenhouses, gardens, farms, fields of small grain, or golf courses, toads are of service to man. Granting that the toad may be indiscriminate in the selection of food, in any of the above situations noxious insects and other invertebrates are sure to predominate, hence the bulk of the toad's food consists of injurious forms. The value of the toad can hardly be defined on a dollar and cents basis, for toads are never numerous enough in any locality to be of especial economic importance. Furthermore, unlike birds, they are not endowed by nature with the ability to traverse wide stretches of land in order to aid in combating abnormal local increases of insects and the like.

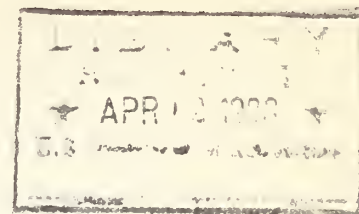
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Apr. '23.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY



BREEDERS OF FUR ANIMALS*

(This list includes the names of all breeders who responded to the questionnaire sent out by this Bureau in 1923, and is not a complete list of the breeders in the United States. The Government assumes no responsibility for the integrity of the firms or individuals named.)

BEAVERS:

Ray Baker, Oakdale, Iowa.
Lem W. Laird, Harper, Kans.
Alaska Silver Fox and Fur Farms Co., Lake Placid, N. Y.

FISHERS:

Lem W. Laird, Harper, Kans.
Alaska Silver Fox and Fur Farms Co., Lake Placid, N.Y.

FOXES*

MARTENS:

Lem W. Laird, Harper, Kans.
Alaska Silver Fox and Fur Farms Co., Lake Placid, N. Y.

MINKS:

E. W. Roberts, Vernon, Colo.
Lem W. Laird, Harper, Kans.
Common Sense Fur Farming Co., Greenville, Mich.
Alvin Goff, Lovells, Mich.
Geo. J. Wolf, Roscommon, Mich.
Melvin Basness, Lansing, Mich.
Gregory Battes, Sleepy Eye, Minn.
Bert Gilbertson, Bagley, Minn.
Geo. C. Hall and Clyde Blakely, Farmington, Minn.
J. H. Newman, Lakeland, Minn.
Northern Raccoon Farm, Fairfax, Minn.
Stephen C. O'Connell, St. Louis Park, Minn.
Leroy L. Staples, Rosy, Minn.
Bert Tippman, Caledonia, Minn.
A. J. Welty, 769 West King St., Winona, Minn.
Alaska Silver Fox and Fur Farms Co., Lake Placid, N. Y.
F. E. Dawley, Fayetteville, N. Y.
Mohawk Valley Live Stock Co., Little Falls, N. Y.
F. G. Krum, 2071 E. Stark, Portland, Oreg.
Oregon Silver-Black Fox Farm, Dundee, Oreg.
Dr. Wm. C. Baird, Beaumont, Tex.
Davis-Charlton Fur Farms, Inc., St. Johnsbury, Vt.
The Cliffs Fish and Fur Farm, So. Bellingham, Wash.

*For Fox Breeders see Form Bi-442.

MUSKRATS:

Cecil C. Hahn, Wilmington, Del.
Lem. W. Laird, Harper, Kans.
Chas. H. Seward, R. D., Cambridge, Md.
Guy Slacum, Andrews, Md.
Daniel J. Willey, R. D., Aireys, Md.
Common Sense Fur Farming Co., Greenville, Mich.
Herman Saffran, Honor, Mich.
Bert Tippman, Caledonia, Minn.
Wildering Fur Farm, Backus, Minn.
Chauncey E. Beebe, Columbia Falls, Mont.
Mohawk Valley Live Stock Co., Little Falls, N. Y.
Arthur A. Schumaker, Lockland, Ohio.
Dr. Wm. C. Baird, Beaumont, Tex.

OPOSSUMS:

E. A. Hunsley, Edinburg, Ill.
Lem W. Laird, Harper, Kans.
Chas. H. Seward, R. D., Cambridge, Md.
Bert Tippman, Caledonia, Minn.
Mohawk Valley Live Stock Co., Little Falls, N. Y.
Dr. Wm. C. Baird, Beaumont, Tex.

RACCOONS:

Donald H. McKee, Woodside, Redwood City, Calif.
Mrs. Clyde C. Lasswell, Box 144, Nampa, Idaho.
Ray Baker, Oakdale, Iowa.
Lem W. Laird, Harper, Kans.
Elwyn L. Huff, West Buxton, Me.
Pen Spring Game Farm, Highpine, Me.
Arthur R. Taylor, Biddeford, Me.
Lester G. Weymouth, Farmington Falls, Me.
Chas. H. Seward, R. D., Cambridge, Md.
S. B. Abbott, Elwell, Mich.
B. G. Horling, Coopersville, Mich.
J. C. Mortenson & Son, Ann Arbor, Mich.
Melvin Basness, Lansing, Mich.
Gregory Battes, Sleepy Eye, Minn.
Blake & Rethlake, Litchfield, Minn.
Wm. Craig, Aitkin, Minn.
Dangers Stock & Poultry Farm, Sleepy Eye, Minn.
Frank Goodsell, Canby, Minn.
Geo. C. Hall & Clyde Blakely, Farmington, Minn.
J. H. Newman, Lakeland, Minn.
Northern Raccoon Farm, Fairfax, Minn.
D. B. Riebel, Delano, Minn.
Bert Tippman, Caledonia, Minn.
James A. Felch, Henniker, N. H.
Alaska Silver Fox and Fur Farms Co., Lake Placid, N. Y.
Mohawk Valley Live Stock Co., Little Falls, N. Y.
Joseph Beat, Bellevue, Ohio.

RACCOONS: (Continued)

A. Gold & Son, 698 Spring St., Bethlehem, Pa.
Dr. Wm. C. Baird, Beaumont, Tex.
Davis-Charlton Fur Farms, Inc., St. Johnsbury, Vt.
F. William Giebel, Augusta, Wis.
E. F. Stabnow, North Freedom, Wis.

SKUNKS:

E. W. Roberts, Vernon, Colo.
E. A. Hunsley, Edinburg, Ill.
Ray Baker, Oakdale, Iowa.
Lem W. Laird, Harper, Kans.
John S. Boudin, R. D. 1, Box 80, Monroe, Me.
Charles C. Ricker, North Lebanon, Me.
Irving L. Burnham, So. Hamilton, Mass.
Common Sense Fur Farming Co., Greenville, Mich.
Nelson A. Frost, Flint, Mich.
Alvin Goff, Lovells, Mich.
B. G. Horling, Coopersville, Mich.
Jack Joslyn, Muskegon, Mich.
J. C. Mortenson & Son, Ann Arbor, Mich.
Alfred H. Newman, Fennville, Mich.
Melvin Basness, Lansing, Mich.
Gregory Pattes, R. D. 2, Sleepy Eye, Minn.
Wm. Craig, Aitkin, Minn.
Dangers Stock & Poultry Farm, Sleepy Eye, Minn.
Geo. C. Hall and Clyde Blakely, Farmington, Minn.
Arnold Helgeland, Kratka, Minn.
J. G. Meyers, Nevis, Minn.
J. H. Newman, Lakeland, Minn.
Northern Raccoon Farm, Fairfax, Minn.
Leroy L. Staples, Rosy, Minn.
Bert Tippman, Caledonia, Minn.
Wildering Fur Farm, Backus, Minn.
Chauncey E. Beebe, Columbia Falls, Mont.
W. C. Thompson, Lloyd, Mont.
Alaska Silver Fox and Fur Farms Co., Lake Placid, N. Y.
Simon D. Krom, Kerhonkson, N. Y.
J. Francis Kirby, Huntington, N. Y.
Mohawk Valley Live Stock Co., Little Falls, N. Y.
Bennie-Gilbertson, Milnor, N. Dak.
Anton Vejtasa, Fairdale, N. Dak.
H. H. Sarver, Sidney, Chic.
Arthur A. Schumaker, Lockland, Ohio.
F. G. Krum, 2071 E. Stark, Portland, Oreg.
Arthur McRobert, Ukiah, Oreg.
Oregon Silver-Black Fox Farm, Dundee, Oreg.

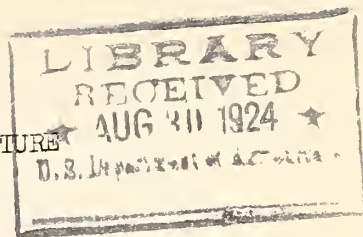
SKUNKS: (Continued)

Wallace W. Smith, Philomath, Oreg.
Homar Buch, Bernville, Pa.
Chester Springs Fox Farm, Chester Springs, Pa.
A. Gold & Son, 698 Spring St., Bethlehem, Pa.
Christ Roth, Allensville, Pa.
Dr. Wm. A. Baird, Beaumont, Tex.
Grant Harper, Sprague, Wash.
Walter Schoenherr, Hamburg, Wis.

SQUIRRELS:

J. C. Mortenson & Son, Ann Arbor, Mich.
Northern Raccoon Farm, Fairfax, Minn.

UNITED STATES DEPARTMENT OF AGRICULTURE
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BEAVERS:

Will E. Stanford, Taylorsville, Calif.
H. Walter McWilliams, Griffin, Ga.
Donald S. Crowe, Orange, N.J.
Silverplume Foxes, Orange, N.J.
Alaska Silver Fox Farms, Lake Placid, N.Y.

FISHERS:

Louis Bernard, Rockwood, Maine.
Rest Island Silver Fox Farms, White Bear, Minn.
Robertson Silver Fox Company, Grand Marais, Minn.
Mohawk Valley Company, Little Falls, N.Y.
United States Silver Fox Farms Corporation, Spokane, Wash.

FOXES*

MARTENS

E. W. Roberts, Lindland, Colo.
Northern Raccoon Farm, Fairfax, Minn.
Donald S. Crowe, Orange, N.J.
Silverplume Foxes, Orange, N.J.
Alaska Silver Fox Farms, Lake Placid, N.Y.
Oregon Silver Black Fox Farm, Dundee, Oreg.
D. C. Floyd, Silverton, Wash.
United States Silver Fox Farms Corporation, Spokane, Wash.

MINKS:

E. W. Roberts, Lindland, Colo.
Coats Black Silver Fox Company, Estherville, Iowa.
Bert Iverson, Lake, Iowa.
George F. Wolf, Roscommon, Mich.
Gregory Battes, Sleepy Eye, Minn.
Bert Gilbertson, Bagley, Minn.
Krueger Bros., Comfrey, Minn.
Lakeview Silver Fox Company, Worthington, Minn.
Northern Raccoon Farm, Fairfax, Minn.
Raymond Palmer, Chicago City, Minn.

*For Fox Breeders see Form Bi-442.

MINKS (Continued):

Rest Island Silver Fox Farms, White Bear, Minn.
Heroy Staples, Rosy, Minn.
Bert Tippman, Caledonia, Minn.
W. S. Ulman, Millville, Minn.
H. A. W. Jacobi, Fort Benton, Mont.
Donald S. Crowe, Orange, N. J.
Echo Glen Fur Post of Rivervale, Westwood, N. J.
Silverplume Foxes, Orange, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
M. J. Brownell, Rockwells Mills, N. Y.
Cher-O-Kee Fur Farm, Forestport, N. Y.
Mohawk Valley Company, Little Falls, N. Y.
Oregon Silver Black Fox Farm, Dundee, Oreg.
C. Kraayenbrink, Madison, S. Dak.
Davis-Charlton Fur Farms, Inc., St. Johnsbury, Vt.
Vermont Silver Fox Company, Inc., Chittenden, Vt.
United States Silver Fox Farms Corporation, Spokane, Wash.

MUSKRATS:

Will E. Stanford, Taylorsville, Calif.
E. A. Hunsley, Edinburg, Ill.
Pittston Muskrat Ranching Company, Gardiner, Me.
Charles H. Seward, Cambridge, Md.
Northern Raccoon Farm, Fairfax, Minn.
John Pohl, Grand Rapids, Minn.
Bert Tippman, Caledonia, Minn.
Donald S. Crowe, Orange, N. J.
Silverplume Foxes, Orange, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
Lake George Silver Fox Farm, Lake George, N. Y.
Mohawk Valley Company, Little Falls, N. Y.
Ross R. Martin, Powers Lake, N. D.
Nelson Heer, Archbold, Ohio.
Arthur A. Schumacher Company, Lockland, Ohio.
E. Hetter, Aurora, Oreg.
Oregon Silver Black Fox Farm, Dundee, Oreg.
J. W. Godwin, 220 Burke Bldg., Seattle, Wash.
G. C. Gray, Bremerton, Wash.
Grant Harper, Sprague, Wash.

OPOSSUMS:

E. A. Hunsley, Edinburg, Ill.
John Pohl, Grand Rapids, Minn.
Bert Tippman, Caledonia, Minn.
Donald S. Crowe, Orange, N. J.
Silverplume Foxes, Orange, N. J.
Mohawk Valley Company, Little Falls, N. Y.

RACCOONS:

Will E. Stanford, Taylorsville, Calif.
Big "K" Farm, Kellogg, Iowa.
Coats Black Silver Fox Company, Estherville, Iowa.
Bert Iverson, Rake, Iowa.
Rex Bridges, Fairfield, Me.
Corliss L. Bodwell, Springvale, Me.
Daniel I. Gould, Bangor, Me.
Otto B. Hunt, Mexico, Me.
Sylvester Jay, Houlton, Me.
Edwin D. Johnson, Brooks, Me.
Ulysses G. Lovitt, Cornish, Me.
Arthur R. Taylor, Biddeford, Me.
B. G. Horling, Coopersville, Mich.
Elmer E. Milbourne, Eaton Rapids, Mich.
J. C. Mortenson & Son, Ann Arbor, Mich.
Frank Agar, Anoka, Minn.
Gregory Battes, Sleepy Eye, Minn.
William Craig, Aitkin, Minn.
Dangers Stock & Poultry Farm, Sleepy Eye, Minn.
Frank Goodsell, Canby, Minn.
Krueger Bros., Comfrey, Minn.
Lakeview Silver Fox Company, Worthington, Minn.
J. H. Newman, Lakeland, Minn.
Northern Raccoon Farm, Fairfax, Minn.
Pinnell's Fox and Fur Farm, Aitkin, Minn.
John Pohl, Grand Rapids, Minn.
Rest Island Silver Fox Farms, White Bear, Minn.
D. B. Riebel, Delano, Minn.
Charles F. Schaupp, Rushford, Minn.
Bert Tippman, Caledonia, Minn.
James A. Felch, Henniker, N. H.
Donald S. Crowe, Orange, N. J.
Silverplume Foxes, Orange, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
M. J. Brownell, Rockwells Mills, N. Y.
Cher-O-Kee Fur Farm, Forestport, N. Y.
Mohawk Valley Company, Little Falls, N. Y.
Carl Cullers, Arcamum, Ohio.
L. S. Russell, Cardington, Ohio.
Lake Pleasant Fur Farms, Erie, Pa.
Black Hills Silver Fox Ranch, Nemo, S. Dak.
D. Johnson, White Rock, S. Dak.
C. Kraayenbrink, Madison, S. Dak.
Davis-Charlton Fur Farms, Inc., St. Johnsbury, Vt.
G. C. Gray, Bremerton, Wash.
F. Wm. Giebel, Augusta, Wis.
Albert A. Grahl, Eden, Wis.
E. F. Stabnow, North Freedom, Wis.

SKUNKS:

F. W. Roberts, Lindland, Colo.
E. A. Hunsley, Edinburg, Ill.
L. F. Mayenshe, Byron, Ill.
T. L. Kimbrough, Princeton, Ind.
Bert Iverson, Rake, Iowa.
Iem W. Laird, Harper, Kans.
John S. Bowden, Monroe, Me.
B. G. Horling, Coopersville, Mich.
J. C. Mortenson & Son, Ann Arbor, Mich.
Alfred E. Newman, Fennville, Mich.
Gregory Battes, Sleepy Eye, Minn.
William Craig, Aitkin, Minn.
Dangers Stock & Poultry Farm, Sleepy Eye, Minn.
Krueger Bros., Comfrey, Minn.
Lakeview Silver Fox Company, Worthington, Minn.
J. G. Meyers, Nevis, Minn.
J. H. Fewman, Lakeland, Minn.
Northern Raccoon Farm, Fairfax, Minn.
John Pohl, Grand Rapids, Minn.
Leroy Staples, Rosy, Minn.
Bert Tippman, Caledonia, Minn.
Donald S. Crowe, Orange, N. J.
Silverplume Foxes, Orange, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
M. J. Brownell, Rockwells Mills, N. Y.
Cher-O-Kee Fur Farm, Forestport, N. Y.
J. Francis Kirby, Huntington, N. Y.
Simon D. Krom, Berhonkson, N. Y.
Mohawk Valley Company, Little Falls, N. Y.
North Star Fur Farm, Fortuna, N. Dak.
Anton Vejtas, Fairdale, N. Dak.
Dellwood Fur Farm, Dayton, Ohio.
Arthur McRobert, Ukiah, Oreg.
L. W. Brown, York, Pa.
Black Hills Silver Fox Ranch, Nemo, S. Dak.
D. Johnson, White Rock, S. Dak.
C. Kraegenbrink, Madison, S. Dak.
Vermont Silver Fox Company, Inc., Chittenden, Vt.
Anguilla Islands Fur Company, Bremerton, Wash.
Grant Harper, Sprague, Wash.
Spokane Silver Fox Farms, Spokane, Wash.

SQUIRRELS:

J. C. Mortenson & Son, Ann Arbor, Mich.
Gregory Battes, Sleepy Eye, Minn.
Northern Raccoon Farm, Fairfax, Minn.
Mohawk Valley Company, Little Falls, N. Y.



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BEAVERS:

H. Walter McWilliams, Griffin, Ga.
M. & B. Voss and C. M. Nicholas, Luther, Mich.
Frank Babineau, Grand Marais, Minn.
Gage Bros. & Heinzelman, Lake Itasca, Minn.
Alaska Silver Fox Farms, Lake Placid, N. Y.
Cole-Black Fox and Fur Farm, Alder Creek, N. Y.
Lawrence H. Roba, Paulina, Oreg.
Anderson & Son, White Bluffs, Wash.
Gedney Fox Farm, Inc., Everett, Wash.
Mark Bros. Fox and Fur Farm, Woodland, Wash.

FISHERS:

Northern Raccoon Farm, R.D. #3, Box 39, Fairfax, Minn.
Rest Island Silver Fox Farms, Inc., White Bear Lake, Minn.
C. Solovieff Company, Little Falls, N. Y.
D. M. Haskin, Dundee, Oreg.
Fred A. Fischer, Spruce, Wash.
United States Silver Fox Farms Corporation, Spokane, Wash.

FOXES*

MARTENS:

Hawkeye Itasca Silver Fox Co., Vinton, Iowa.
Allegan Silver Fox Co., Allegan, Mich.
Northern Raccoon Farm, R.D. #3, Box 39, Fairfax, Minn.
Alaska Silver Fox Farms, Lake Placid, N. Y.
C. Solovieff Company, Little Falls, N. Y.
D. M. Haskin, Dundee, Oreg.
Hi-Oregon Fox & Fur Farm, Prairie City, Oreg.
Matt Kohn, Klamath Falls, Oreg.
Fred A. Fischer, Spruce, Wash.
Honey Boy Marten Farm, Silverton, Wash.
Mount Baker Fur Farms, Concrete, Wash.
United States Silver Fox Farms Corporation, Spokane, Wash.

*For Fox Breeders see Form Bi-442.

MINKS:

C. G. Anderson, West Ridge, Ark.
U. S. Silver Fox Farms of California, Dunsmuir, Calif.
O. W. Morgan, Ferdinand, Idaho.
Dr. Willard B. Sheldon, Buhl, Idaho.
George L. Freeto, Mechanicsburg, Ill.
C. R. Heasley, Creal Springs, Ill.
Elmer Olmsted, Worden, Ill.
Moonlight Silver Fox and Fur Farm, New Ross, Ind.
Roy E. Poland, 924 Fletcher Av., Indianapolis, Ind.
Coats Black Silver Fox Company, Estherville, Iowa.
Hawkeye Itasca Silver Fox Co., Vinton, Iowa.
William Jenn, Ionia, Iowa.
C. H. McKinney, Runnells, Iowa.
Nadine Stillman, Dolliver, Iowa.
W. H. Warrington, Estherville, Iowa.
United Fox and Fur Farms, Inc., Richmond, Me.
Tyce Coeling, Ellsworth, Mich.
Angus Graham, Reed City, Mich.
Melvin Basness, Lansing, Minn.
Arthur Berge, Underwood, Minn.
C. W. Bjorkman, Hawick, Minn.
Chisago Lake Silver Black Fox Farm, Chisago City, Minn.
Vance C. Garrison, Nebish, Minn.
Bert Gilbertson, Bagley, Minn.
Gracey Bros., Excelsior, Minn.
Albert Grams, New Ulm, Minn.
B. C. Hermanson, Garfield, Minn.
Dr. C. W. Holtzman, Minneapolis, Minn.
Johns Brothers, New Ulm, Minn.
Thomas Knipfer, Northome, Minn.
E. W. Knott, Raymond, Minn.
Theo. W. Maki, Zim, Minn.
Minnesota Silver Fox Company, Chisago City, Minn.
Northern Raccoon Farm, R.D. #3, Box 39, Fairfax, Minn.
Oak Hill Silver Fox Ranch, Atwater, Minn.
Ranger Fur Farm, Excelsior, Minn.
Rest Island Silver Fox Farms, Inc., White Bear Lake, Minn.
Joe M. Sandmeyer, St. James, Minn.
Leroy Staples, Rosy, Minn.
Bert Tippman, Caledonia, Minn.
United States Silver Fox Farms, Minneapolis, Minn.
C. T. Gadsden, Utica, Mont.
E. A. W. Jacobi, Fort Benton, Mont.
Leonard Columbe, R.F.D., Lebanon, N. H.
Silverplume Foxes, R.D. #1, Paterson, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
Harvey Alexander, Campbell Hall, N. Y.
C. Solovieff Company, Little Falls, N. Y.
C. B. Traynor, Alder Creek, N. Y.
Cascade Silver Fox Ranch, Detroit, Oreg.

MINKS (Continued)

H. E. Hansberry, Rocky Point, Oreg.
D. M. Haskin, Dundee, Oreg.
P. J. Loomis, Warren, Oreg.
Don F. McCrary, Marshfield, Oreg.
L. E. Teters, Sumner, Oreg.
Yachats Silver Black Fox Co., Yachats, Oreg.
C. Kraayenbrink, Madison, S. Dak.
Ogden Silver Black Fox Farm, Ogden, Utah.
W. D. Bull, Castleton, Vt.
Davis-Charlton Fur Farms, St. Johnsbury, Vt.
George W. Donovan, Waterbury, Vt.
Clayton Gould, Canaan, Vt.
George H. Greene, St. Albans, Vt.
Dr. Howard H. Reid, Barre, Vt.
H. L. and L. C. Bartlett, Startup, Wash.
Fred A. Fischer, Spruce, Wash.
Jack Island Fur Co., R.D. #1, Anacortes, Wash.
Murk Bros. Fox and Fur Farm, Woodland, Wash.
Sister Mountain Fur Farm, Wickersham, Wash.
Island City Silver Fox Co., Cumberland, Wis.
O'Reilley Fox Ranch, Merrill, Wis.
H. F. Schroeder, Marinette, Wis.
Wyoming Silver Fox Farms, Inc., 412 Conroy Bldg., Casper, Wyo.

MUSKRATS:

E. H. Curtis, Hamer, Idaho.
Edward C. Davis, Burley, Idaho.
Monaloha Muskrat Ranch, Addie, Idaho.
L. L. Shaw, Naples, Idaho.
John N. Knox, Monroeville, Ind.
Moonlight Silver Fox and Fur Farm, New Ross, Ind.
W. H. Warrington, Estherville, Iowa.
Pittston Muskrat Ranching Co., Gardiner, Me.
Charles H. Seward, Cambridge, Md.
Charles L. Berry, Mansfield, Mass.
A. Becker, 5089 23rd St., Detroit, Mich.
Charles Burley, North Branch, Mich.
W. R. Clinger, Grandville, Mich.
B. G. Horling, Coopersville, Mich.
Earl Hummel, Kalamazoo, Mich.
Alfred Linsley, Hopkins, Mich.
Theodore McComb, Marion, Mich.
F. S. Mathews, Newaygo, Mich.
John Pfeiff, Stephenson, Mich.
A. F. Story, Rockwood, Mich.
M. & B. Voss and C. M. Nicholason, Luther, Mich.
Sam West & Son, Big Rapids, Mich.
C. W. Bjorkman, Hawick, Minn.
Avery Lagerstedt, Gibbon, Minn.
M. P. Massuere, Aitkin, Minn.
Northern Raccoon Farm, R.D. #3, Box 39, Fairfax, Minn.

MUSKRATS (Continued)

John Pohl, Grand Rapids, Minn.
Bert Tippman, Caledonia, Minn.
Wildering Fur Farm, Backus, Minn.
Battle Mountain Fox Farm, Battle Mountain, Nev.
Leonard Columbe, R.F.D., Lebanon, N. H.
Calvin W. Hinds, West Swarzey, N. H.
Silverplume Foxes, R.D. #1, Paterson, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
V. H. Butts and C. C. Curtis, Perry, N. Y.
Cole-Black Fox and Fur Farm, Alder Creek, N. Y.
F. E. Dawley, Fayetteville, N. Y.
James Dean, Boonville, N. Y.
Roy Lyday, Bergen, N. Y.
Michael J. O'Brien, Alder Creek, N. Y.
C. Solovieff Company, Little Falls, N. Y.
John Brennan, Dunseith, N. Dak.
L. M. Hadwen, Bowbells, N. Dak.
Nelson Heer, Archbold, Ohio.
The National Fur Farms Co., Hudson, Ohio.
Charles H. Combs, Lakeview, Oreg.
D. M. Haskin, Dundee, Oreg.
Matt Kohn, Klamath Falls, Oreg.
Hubert J. Livengood, Aloha, Oreg.
P. J. Loomis, Warren, Oreg.
Lake Pleasant Fur Farms, Erie, Pa.
Langs Silver Fox Farm, Washington, Pa.
Dr. William C. Baird, Beaumont, Tex.
W. D. Bull, Castleton, Vt.
Anderson & Son, White Bluffs, Wash.
H. E. Dart, Ariel, Wash.
J. W. Godwin, Seattle, Wash.
Musk Bros. Fox and Fur Farm, Woodland, Wash.
C. A. Olson, Redmond, Wash.

OPOSSUMS:

H. G. McArthur, Danville, Ark.
Adrian E. Scharrow, Berryville, Ark.
W. B. Jackson, Wood River, Ill.
Al. D. Barber, Hebron, Ind.
Donald McKinney, Centerville, Ind.
Scharrer Bros., Palmyra, Ind.
D. M. Stevenson, Jesup, Iowa.
Joe Meyler, R.D. #10, Kalamazoo, Mich.
Bert Tippman, Caledonia, Minn.
Leon Hall, Rich Hill, Mo.
Silverplume Foxes, R.D. #1, Paterson, N. J.
C. Solovieff Company, Little Falls, N. Y.
Hubert J. Livengood, Aloha, Oreg.

RACCOONS:

John Covill, Danbury, Conn.
Alvin E. Kemp, Stafford Springs, Conn.
Mary E. Barker, Anna, Ill.
Tom E. Beare, Armington, Ill.
Hugh Bloncett, Shelbyville, Ill.
Nelson Galloway, Winterrowd, Ill.
George H. Moyer, Mendota, Ill.
A. M. Talbott, Allerton, Ill.
R. Porter Wheeler, Wyoming, Ill.
O. P. Wittenbrink, Chester, Ill.
Al. D. Barber, Hebron, Ind.
Claude Cline, Huntington, Ind.
Fred G. Flanding, Portland, Ind.
Mrs. Ora F. Foust, R.D. #2, Warren, Ind.
Christ Krieger, Hammond, Ind.
John E. May, Redkey, Ind.
C. A. Neal, Jonesboro, Ind.
Grant Sutton, Brazil, Ind.
P. J. Swartzentruber, Shipshewana, Ind.
J. O. Wiseman, 3034 Kenwood Av., Indianapolis, Ind.
Coats Black Silver Fox Company, Estherville, Iowa.
Frank W. Dobberstein, Estherville, Iowa.
C. J. Harvey, Brooks, Iowa.
William M. Hoaglin, Hillsboro, Iowa.
Bert H. Iverson, Rake, Iowa.
Martin Bros., Aurora, Iowa.
William E. Seydel, R.D. #2, Oxford, Iowa.
D. M. Stevenson, Jesup, Iowa.
William G. Stout, Quasqueton, Iowa.
Tony Wellman, West Point, Iowa.
L. V. Wilkerson, Minburn, Iowa.
E. J. Willis, Riceville, Iowa.
F. P. Wilslaf, DeWitt, Iowa.
Mrs. Joseph Berube, Old Town, Me.
Corliss L. Bedwell, Springvale, Me.
Rex V. Bridges, Auburn, Me.
Alfred W. Emerson, Millbridge, Me.
Mrs. Otto P. Hunt, Mexico, Me.
Sylvester Jay, Houlton, Me.
Ulysses G. Loviett, Cornish, Me.
R. F. Stinchfield, Clinton, Me.
John E. A. Keyes, Hudson, Mass.
A. J. Paradise, Fall River, Mass.
S. B. Abbott, Elwell, Mich.
Edwin Beyer, R.D. #3, Saginaw, Mich.
Nicholas E. Carmody, Cheboygan, Mich.
Detroit Silver Fox Farms, Detroit, Mich.
Elmhurst Fur Farm, Mayville, Mich.
Angus Graham, Reed City, Mich.
B. G. Horling, Coopersville, Mich.

RACCOONS (Continued)

George James, Montrose, Mich.
Derrell Kniss, Munith, Mich.
Joe A. Meyering, Lucas, Mich.
Elmer E. Milbourne, Eaton Rapids, Mich.
W. H. Mohr, Tekonska, Mich.
Gust Nitz, Bach, Mich.
Oak Lane Silver Fox Ranch, Bravo, Mich.
Albert H. Ploch, South Haven, Mich.
Clare H. Frey, Capac, Mich.
Frank Royle, Valley Center, Mich.
P. A. Schettek, Cedar, Mich.
Alfred H. Schoeneman, Capac, Mich.
Duane O. Taft, Adrian, Mich.
Ernest R. Troop, St. Johns, Mich.
Acil B. Underwood, Maple Rapids, Mich.
Frank Agar, Anoka, Minn.
Edwin Anderson, Alberta, Minn.
Julius P. Anderson, R.D. #1, Box 69-A, Princeton, Minn.
Anoka Fur Farms, Anoka, Minn.
Melvin Basness, Lansing, Minn.
Sig. Bergebalcken, Fosston, Minn.
Corwin G. Biebighauser, Newport, Minn.
Al. Boss, R.D. #1, Ottertail, Minn.
Mike Bourgoyne, Elk River, Minn.
Mrs. Joe Brown, Le Sueur, Minn.
Cody Bros., Northfield, Minn.
William Craig, Aitkin, Minn.
Dangers Stock & Poultry Farm, Sleepy Eye, Minn.
Hubert Diers, Howard Lake, Minn.
Floyd Elg, Comfrey, Minn.
H. Empting, St. Cloud, Minn.
Leonard Erdahl, Frost, Minn.
Frank Goodsell, Canby, Minn.
Thomas Hayes, Pierz, Minn.
Herman Hirsch, New Germany, Minn.
Theo. Holly, Montgomery, Minn.
Johns Brothers, New Ulm, Minn.
Harry W. Johnson, Lindstrom, Minn.
Irwin Johnson, Simpson, Minn.
Kankaska Fur Farm, Kasota, Minn.
A. F. Keye, Red Wing, Minn.
M. King, Le Sueur, Minn.
Frank E. Knitch, Gilman, Minn.
J. H. Krauss, Battle Lake, Minn.
Alex and William LaBree, Buffalo, Minn.
Avery Lagerstedt, Gibbon, Minn.
J. A. Lundbom, R.D. #3, Lake Lillian, Minn.
Theo. W. Maki, Zim, Minn.
Leo Michael, Jordan, Minn.

RACCOONS (Continued)

Joseph Miller, Jr., Waconia, Minn.
Arthur Mühlenbeck, Fergus Falls, Minn.
J. H. Newman, Hastings, Minn.
F. W. Noble, Bemidji, Minn.
Northern Raccoon Farm, Fairfax, Minn.
Oak Hill Silver Fox Ranch, Atwater, Minn.
E. S. Olson, Milan, Minn.
C. F. Paulson, Courtland, Minn.
Ed. C. Pierce, Isanti, Minn.
Pinnell's Fox and Fur Farm, Aitkin, Minn.
John Pohl, Grand Rapids, Minn.
Ray Fox and Fur Farm, Nebish, Minn.
Leslie Reiner, Consvick, Minn.
John Reinhardt, Le Sueur, Minn.
Rest Island Silver Fox Farms, Inc., White Bear Lake, Minn.
D. B. Riebel, Delano, Minn.
Adam Rolf, Norwood, Minn.
Joe M. Sandmeyer, St. James, Minn.
Charles F. Schaupp, Rushford, Minn.
William Sohn, Le Sueur, Minn.
W. T. Splittstoesser, Claremont, Minn.
Theodore H. Thom, Fergus Falls, Minn.
Bert Timpman, Caledonia, Minn.
Charles Frost, Lakeland, Minn.
Clarence Vande Zande, Preston, Minn.
Theo. C. Young, Good Thunder, Minn.
R. D. Gifford, Trimble, Mo.
Earl Hall, Craig, Mo.
Leon Hall, Rich Hill, Mo.
W. J. Hunt, Aurora, Mo.
Pike Johnson, Gilliam, Mo.
Elbert Williams, Puxico, Mo.
J. F. Beckett, Butte, Mont.
Pleamon A. Clark, Newport, N. H.
Leonard Columbe, R.F.D., Lebanon, N. H.
C. N. Roberts, Meredith, N. H.
Charles E. H. Vigneau, Keene, N. H.
Alaska Silver Fox Farms, Lake Placid, N. Y.
Sarmi V. Austin, Dale, N. Y.
M. J. Brownell, Rockwells Mills, N. Y.
Joshua M. Burdick, R.D. #6, Lockport, N. Y.
Burr-Kaye Fox Ranch, Keeseville, N. Y.
Walter L. Cleghorn, Cuba, N. Y.
Cole-Black Fox and Fur Farm, Alder Creek, N. Y.
S. H. Dean, R.D. #9, Penn Yan, N. Y.
Oliver W. Haines, Tannersville, N. Y.
Lake George Silver Fox Farm, Lake George, N. Y.
George Mechmer, Jr., Eden, N. Y.
Roy Lyday, Bergen, N. Y.
Carl C'Neil, Watertown, N. Y.

RACCOONS (Continued)

Charles S. Sherman, South Schroon, N. Y.
C. Solovieff Company, Little Falls, N. Y.
Earl Fedick, Boston, N. Y.
William H. Umber, Lake Placid, N. Y.
Peter O. Thoe, Fordville, N. Dak.
Joseph Beat, Bellevue, Ohio.
L. S. Russell, Cardington, Ohio.
S. J. Anderson, Brighton, Oreg.
Frances Fox Farm, R.D. #1, Box 425, Portland, Oreg.
Grant Macauley, Mabel, Oreg.
F. E. Smith, Lebanon, Oreg.
T. S. Sprague, Roseburg, Oreg.
Yachats Silver Black Fox Company, Yachats, Oreg.
Lake Pleasant Fur Farms, Erie, Pa.
Langs Silver Fox Farm, Washington, Pa.
Black Hills Silver Fox Farm, Nemo, S. Dak.
James Valley Silver Fox Company, Huron, S. Dak.
D. Johnson, White Rock, S. Dak.
C. Kraayenbrink, Madison, S. Dak.
Earl W. Aldrich, Springfield, Vt.
Davis-Charlton Fur Farms, St. Johnsbury, Vt.
Theodore Hubbard, North Clarendon, Vt.
Morton H. McAllister, Barre, Vt.
Floyd McClallen, Cambridge, Vt.
Nelson McHugh, Middlebury, Vt.
Selder Henry Osmer, Taftsville, Vt.
M. J. Whitcomb, East Barre, Vt.
Dr. Homer B. Wilson, White River Junction, Vt.
W. A. Cartwright, Valley, Wash.
Gedney Fox Farm, Inc., Everett, Wash.
H. William Giebel, Augusta, Wis.
Albert A. Grahl, Eden, Wis.
Island City Silver Fox Co., Cumberland, Wis.
O'Reilley Fox Ranch, Merrill, Wis.
Ernest F. Stabnow, North Freedom, Wis.

SKUNKS

H. G. McArthur, Danville, Ark.
Frank Sullivan, Bog Springs, Ark.
John Rodman, Twin Falls, Idaho.
W. R. Crandall, Piper City, Ill.
Otto C. Knobeloch, Mascoutah, Ill.
True Thompson, West Union, Ill.
Lester Burris, Centerville, Ind.
W. E. Hasting, Mt. Vernon, Ind.
Scharrer Bros., Palmyra, Ind.
Mrs. Lyal Hemphill, Estherville, Iowa.

SKUNKS (Continued)

Bert H. Iverson, Rake, Iowa.
Martin Bros., Aurora, Iowa.
Ellen J. and Henry F. Brown, St. Albans, Me.
United Fox and Fur Farms, Inc., Richmond, Me.
Frank Canillas, Pigeon Cove, Mass.
Daniel Chamberlain, Westwood, Mass.
J. J. Gale, Chelmsford, Mass.
Marshal Fred Laviolette, East Longmeadow, Mass.
Johannes Oman, Pigeon Cove, Mass.
A. J. Paradise, Fall River, Mass.
O. W. Curtis, Colon, Mich.
Z. Alvin Goff, Lovells, Mich.
B. G. Horling, Coopersville, Mich.
Joe Meyler, R.D. #10, Kalamazoo, Mich.
Wm. A. Peterson & Paul Danielson, Ludington, Mich.
A. Reefman, Holton, Mich.
Frank Royle, Valley Center, Mich.
Frank Skinner & Sons, Gowen, Mich.
Acil B. Underwood, Maple Rapids, Mich.
Anoka Fur Farms, Anoka, Minn.
Corwin G. Biebighauser, Newport, Minn.
Blackduck Fur Farm, Hines, Minn.
Al Boss, R.D. #1, Ottertail, Minn.
Roy R. Brown, Tenney, Minn.
Peter W. Caflisch, Simpson, Minn.
William Craig, Aitkin, Minn.
Dangers Stock & Poultry Farm, Sleepy Eye, Minn.
Leonard Erdahl, Frost, Minn.
A. H. Fairchild, Bruno, Minn.
Gracey Bros., Excelsior, Minn.
Anond Helle, Laporte, Minn.
Francis Hesse, Randall, Minn.
Frank Hill, Embarrass, Minn.
O. N. Jellum, Hill City, Minn.
Johns Brothers, New Ulm, Minn.
Kankaska Fur Farm, Kasota, Minn.
Clifford Kirchhof, Hazel Run, Minn.
Thomas Knipfer, Northome, Minn.
Alex and William LaBree, Buffalo, Minn.
Avery Lagerstedt, Gibbon, Minn.
J. A. Lundbom, R.D. #3, Lake Lillian, Minn.
Dougald McBride, Deerwood, Minn.
Leo Michael, Jordon, Minn.
Edwin Newman, Bruno, Minn.
Northern Raccoon Farm, Fairfax, Minn.
Clarence Olson, Fosston, Minn.
C. E. Olson, Clinton, Minn.
Oscar E. Olson, Fosston, Minn.
John Pohl, Grand Rapids, Minn.
Ranger Fur Farm, Excelsior, Minn.
Ray Fox and Fur Farm, Nebish, Minn.

SKUNKS (Continued)

George Reynolds, Aitkin, Minn.
Joe M. Sandmeyer, St. James, Minn.
Martin and Leonard Sethre, Carlisle, Minn.
W. T. Splittstoesser, Claremont, Minn.
Leroy Staples, Rosy, Minn.
Harry Stark, Springfield, Minn.
S. M. Stockey, Willow River, Minn.
W. A. Sutherland, Maple Plain, Minn.
Ernest J. Thiede, Annandale, Minn.
Bert Tippman, Caledonia, Minn.
Wildering Fur Farm, Lackus, Minn.
E. H. Worner, Erhard, Minn.
Marion C. Elliott, Mountain Grove, Mo.
Leon Hall, Rich Hill, Mo.
R. G. Fritsch, P.D. #2, Diamond, Mo.
E. E. Rowden, Willard, Mo.
Silverplume Foxes, R.D. #1, Paterson, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
Burr-Kaye Fox Ranch, Keeseville, N. Y.
Walter A. Dutier, Oneida, N. Y.
Spencer Clauson, R.D. #2, Middletown, N. Y.
Edwin L. Grosse, Clymer, N. Y.
J. Francis Kirby, Huntington, N. Y.
Simon D. Krom, Arthonkson, N. Y.
Roy Lyday, Bergen, N. I.
Thomas McGrath, Bedford Hills, N. Y.
Michael J. O'Brien, Alder Creek, N. Y.
Carl O'Neill, Watertown, N. Y.
Roy C. Petrie, Marathon, N. Y.
Otto H. Schultz, Westfield, N. Y.
G. Solovieff Co., Little Falls, N. Y.
Dakota Silver Fox Farm, Colgate, N. Dak.
L. M. Hadwen, Bowbells, N. Dak.
Earl C. Nelson, Englevale, N. Dak.
North Star Fur Farm, Fortuna, N. Dak.
G. G. Spiese, Bowbells, N. Dak.
Anton Vejtas, Fairdale, N. Dak.
Hubert J. Livengood, Aloha, Oreg.
F. E. Smith, Lebanon, Oreg.
Yachats Silver Black Fox Co., Yachats, Oreg.
Lester A. Brown, Box 767, York, Pa.
Black Hills Silver Fox Farm, Nemo, S. Dak.
D. Johnson, White Rock, S. Dak.
C. Kraayenbrink, Madison, S. Dak.
Ogden Silver Black Fox Farm, Ogden, Utah.
Nelson McHugh, Middlebury, Vt.
Newton H. Rose, New Haven, Vt.
Dr. Homer B. Wilson, White River Junction, Vt.

SQUIRRELS:

Guy Haun, Centralia, Ill.

Claude Cline, Huntington, Ind.

First National Fur Producers, Inc., Grand Rapids, Mich.

Avery Lagerstedt, Gibbon, Minn.

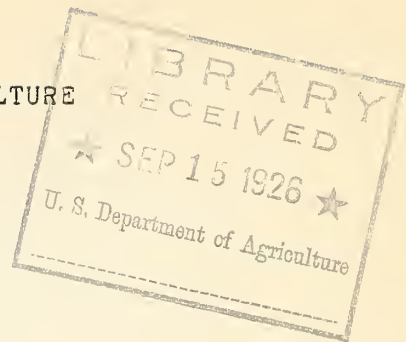
Northern Raccoon Farm, Fairfax, Minn.

Bert Tippman, Caledonia, Minn.

C. Solovieff Company, Little Falls, N. Y.

Bi-464
July '26

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY



BREEDERS OF FUR ANIMALS*

(This list includes the names of all breeders who responded to the questionnaire sent out by this Bureau in 1926, and is not a complete list of the breeders in the United States. The Government assumes no responsibility for the integrity of the firms or individuals named.)

BADGERS:

Donald S. Crowe, R. D. #1, Paterson, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
Earl O. Nelson, Englevale, N. Dak.

BEAVERS:

H. Keighly-Peach, 1023 Madison Avenue, Baltimore, Md.
Soldier Pond Fur Corporation, Soldier Pond, Me.
Herman Besser, Alpena, Mich.
Wm. A. Patterson and Paul Danielson, Ludington, Mich.
Peter Raymen, Dig Bay, Mich.
Gage Bros. & Heinzelman, Lake Itasca, Minn.
Donald S. Crowe, R. D. #1, Paterson, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
Cole-Black Fox & Fur Farm, Alder Creek, N. Y.
De-Bar Mountain Silver Fox Range, Inc., Malone, N. Y.
Herwig Netter, Aurora, Oreg.
Bold Island Fur Farm, Inc., Seattle, Wash.
Murk Bros. Fox & Fur Farm, Woodland, Wash.
Ajax Fox & Fur Company, Chippewa Falls, Wis.
C. W. Hedrick, Grovent, Wyo.
Tom Tracy, Elk, Wyo.

FISHERS:

Ernest R. Conrad & Associates, California Bldg., Denver, Colo.
Pine Woods Fur Farm, R. D. #2, Rathdrum, Idaho.
D. R. Aitken, Montague, Mich.
Lauri Karimo, Payment, Mich.
Maeser Fur Farms, Inc., Hackensack, Minn.
Northern Raccoon Fur Farm, R. D. #3, Box 39, Fairfax, Minn.
Rest Island Silver Fox Farms, Inc., White Bear Lake, Minn.

*For Fox Breeders see Form Bi-442

Rabbit Breeders see Forms Bi-880, Bi-881, and Bi-883

FISHERS (Continued)

Robertson Silver Fox Company, Inc., Grand Marais, Minn.
H. A. Jacobi, Fort Benton, Mont.
Donald S. Crowe, R. D. #1, Paterson, N. J.
Alaska Silver Fox Farm, Lake Placid, N. Y.
Oregon Silver Fox & Fur Farm, Hood River, Oreg.
Stephens Mink Ranch, Wytheville, Va.
Blue Moon Farm, Seattle, Wash.
Federal Distributing Company, Seattle, Wash.
United States Silver Fox Farms Corporation, Spokane, Wash.
Wilgo Fur Farm, Spruce, Wash.

FOXES*

KARAKUL SHEEP:

Carl G. Dickson, Dunsmuir, Calif.
United States Silver Fox Farm, Dunsmuir, Calif.
Alaska Silver Fox & Furs, Inc., Denver, Colo.
Dion Geraldine, 122 S. Michigan Avenue, Chicago, Ill.
Geo. S. Dodd, South Bend, Ind.
Clare F. Limbeck, McGregor, Iowa.
Ed Weise & Son, Manning, Iowa.
Llewellyn Bryant, South Poland, Me.
E. E. & Maurice Kirn, Saginaw, Mich.
Skinner & Kirn, Henderson, Mich.
E. W. Olmstead, Wigwam Bay, Minn.
United States Silver Fox Farm, Box 148, Minneapolis, Minn.
George Ives, University Club Building, St. Louis, Mo.
Bitter Root Fur Farms, Corvallis, Mont.
Montana Silver Black Fox Company, Missoula, Mont.
Donald S. Crowe, R. D. #1, Paterson, N. J.
G. Buehrer, Box 539, New Rochelle, N. Y.
J. Milo Carr, Tully, N. Y.
W. W. Cocks, Old Westbury, L. I., N. Y.
H. W. Covert, Hannacroix, N. Y.
F. E. Dawley, Fayetteville, N. Y.
Clare O. Gregory, Mt. Vision, N. Y.
Henry Hoffman, Box 779, Syracuse, N. Y.
Geo. S. Jeffreys, Sackets Harbor, N. Y.
Karakul Fur Sheep Company, Fayetteville, N. Y.
Fred L. Macklin, Schuylerville, N. Y.
Ontario Stock Farms Corporation, Sackets Harbor, N. Y.
Mrs. R. D. Roquemore, Cooperstown, N. Y.
Dr. H. W. Vickers, Little Falls, N. Y.
McIntyre & Burtness, Manvel, N. Dak.

E. B. Blakeslie, Medina, Ohio.
F. B. Wood, Athenia, Oreg.
Earl White, Galetton, Pa.
Vermont Silver Fox Company, Inc., Chittenden, Vt.
United States Silver Fox Farms Corporation, Spokane, Wash.
Dr. E. K. Wolfe, Palouse, Wash.
F. S. Cole, Omro, Wis.
F. A. Garvey, Lynxville, Wis.
J. F. Timler, Schofield, Wis.

MARTENS:

Ernest R. Conrad & Associates, California Bldg., Denver, Colo.
Campbells Fur Farm, Hope, Idaho.
S. W. Dee, McCall, Idaho.
R. H. Ewing, Driggs, Idaho.
L. F. Gunlin, Box 7, Meadows, Idaho.
J. C. Madison, Meadows, Idaho.
Pine Woods Fur Farm, R. D. #2, Rathdrum, Idaho.
Hawkeye Itasca Silver Fox Company, Vinton, Iowa.
D. R. Aitken, Montague, Mich.
Peters & Case, Box 516, Big Rapids, Mich.
Northern Raccoon Fur Farm, R. D. #3, Box 39, Fairfax, Minn.
Bitter Root Fur Farms, Corvallis, Mont.
P. J. Elizagary, Emigrant, Mont.
H. A. Jacobi, Fort Benton, Mont.
Lone Mountain Silver Fox & Fur Ranch, Bozeman, Mont.
Donald S. Crowe, R. D. #1, Paterson, N. J.
Alaska Silver Fox Farms, Lake Placid, N. Y.
D. M. Haskin, Dundee, Oreg.
Oregon Silver Fox & Fur Farm, Portland, Oreg.
Portland Silver Fox & Fur Farms, Portland, Oreg.
Wallace W. Smith, Prairie City, Oreg.
L. E. Teters, Sumner, Oreg.
Alderwood Fur Farms, Winlock, Wash.
Blue Moon Farm, Seattle, Wash.
M. J. Dikeman, Auburn, Wash.
M. R. Holley, Silvertown, Wash.
Jack Island Fur Company, R. D. #1, Anacortes, Wash.
L. A. Mose, R. D. #1, Olympia, Wash.
Mt. Baker Silver Fox Farm, Concrete, Wash.
Tide-to-Timbrline Fur Farms, Startup, Wash.
United States Silver Fox Farms Corporation, Spokane, Wash.
B. J. Vroman, Methow, Wash.
Wilgo Fur Farms, Spruce, Wash.
John Hall, Jackson, Wyo.
John Infanger, Jackson, Wyo.

Carl G. Dickson, Dunsmuir, Calif.
John Gundersen, Box 553, San Pedro, Calif.
United States Silver Fox Farm, Dunsmuir, Calif.
Rollison & Sanders, Red Deer, Alberta, Canada.
Silverwood Fur Farms, R. D. #3, Durham, Ontario, Canada.
Sterling Silver Fox Company, Winnipeg, Canada.
Ernest R. Conrad & Associates, California Bldg., Denver, Colo.
Campbells Fur Farm, Hope, Idaho.
Ernest H. Carlson, Box 121, Coeur d'Alele, Idaho.
Lee F. Gimlin, Box 7, Meadows, Idaho.
J. C. Madison, Meadows, Idaho.
Chas. E. Paine, Parma, Idaho.
Pine Woods Fur Farm, R. D. #2, Rathdrum, Idaho.
Roth Bros. Fur Farm, Twin Lakes, Rathdrum, Idaho.
W. B. Sheldon, Box 356, Buhl, Idaho.
E. C. Barker, Mazon, Ill.
G. L. Freeto, Mechanicsburg, Ill.
C. R. Heasley, Creal Springs, Ill.
Illinois Silver Fox Farm, Belleville, Ill.
Evert Williamson, R. D. #1, Monmouth, Ill.
Moonlight Silver Fox & Fur Farm, New Ross, Ind.
Hawkeye Itasca Silver Fox Company, Vinton, Iowa.
Burt H. Iverson, Box 74, Rake, Iowa.
William Jenn, Ionia, Iowa.
W. H. Warrington, Estherville, Iowa.
Rollin Dinsmore, Box 441, Sanford, Me.
F. B. Fowler, Oquossoc, Me.
Bennet Moulton, East Brownfield, Me.
C. A. Oliver, R. D. #3, Box 53, Waldoboro, Me.
M. H. Ramsdell, Burlington, Me.
J. P. Yerxa, Guerette, Me.
Leonard Chisholm, Saugus, Mass.
D. R. Aitken, Montague, Mich.
L. I. Breakey, Marshall, Mich.
Genebach Ranch Company, Battle Creek, Mich.
Wm. A. Patterson & Paul Danielson, Ludington, Mich.
Royal Fur Farms, La Branch, Mich.
Superior Silver Fox Ranch, Quinnesec, Mich.
Arlington Silver Fox Farms, Red Wing, Minn.
Louis Backes, R. D. #2, Alexandria, Minn.
Leonard Erdahl, Frost, Minn.
Vance C. Garrison, Nobish, Minn.
Bert Gilbertson, Bagley, Minn.
B. C. Hermanson, Garfield, Minn.
Dr. S. W. Holtzman, 5315 Nicollet Avenue, Minneapolis, Minn.

MINKS (Continued)

Johns Brothers, R. %. #4, Box 117, New Ulm, Minn.
Thomas Knipfer, Northome, Minn.
Avery Lagerstedt, R. D. #1, Gibbon, Minn.
J. A. Lundbom, R. D. #3, Lake Lillian, Minn.
Maeser Fur Farms, Inc., Hackensack, Minn.
M. W. Malone, Windom, Minn.
Minneapolis Silver Fox & Fur Farms, Minneapolis, Minn.
Northern Raccoon Fur Farm, R. D. #3, Box 39, Fairfax, Minn.
Oak Hill Silver Fox Ranch, R. D. #1, Atwater, Minn.
E. W. Olmsted, Wigwam Bay, Minn.
Ranger Fur Farm, Excelsior, Minn.
Raymond Silver Fox Company, Raymond, Minn.
Rest Island Silver Fox Company, Inc., White Bear Lake, Minn.
C. E. Robinson, Box 148, Minneapolis, Minn.
Joe M. Sandmeyer, R. D. #4, Box 17, St. James, Minn.
A. F. Scrimshaw, St. Vincent, Minn.
Carl Shogren, Jr., Popple, Minn.
Leroy Staples, Rosy, Minn.
N. C. Thimsen, Blooming Prairie, Minn.
B. Tippman, Caledonia, Minn.
W. S. Ulman, Millville Minn.
United States Silver Fox Farm, Box 148, Minneapolis, Minn.
Clarence Vande Zande, Preston, Minn.
J. C. Wanous, Appleton, Minn.
Dr. W. F. Pauly's Pheasantry, Kahoka, Mo.
Bitter Root Fur Farms, Corvallis, Mont.
P. J. Elizagary, Emigrant, Mont.
C. T. Gadsden, Utica, Mont.
William Hugelie, Deer Lodge, Mont.
Lone Mountain Silver Fox & Fur Ranch, Bozeman, Mont.
Northern Fox Farm, Billings, Mont.
J. J. Warta, Omaha, Nebr.
Chas. N. Roberts, Meredith, N. H.
Battle Mountain Fox Farm, Battle Mountain, Nev.
Donald S. Crowe, R. D. #1, Paterson, N. J.
Alaska Silver Fox Farm, Lake Placid, N. Y.
Fur Farms Publishing Company, Utica, N. Y.
Reynard Fur Farm, Inlet, N. Y.
C. B. Traynor, Alder Creek, N. Y.
A. Zahel, Yorktown Heights, N. Y.
W. B. Lamb, Skyland, N. C.
Lorrell M. Hadwen, Bowbells, N. Dak.
Clarence Orser, Colgate, N. Dak.
Red Fox Farm, Fairdale, N. Dak.
M. E. Danford, Middletown, Ohio.

MINKS (Continued)

Howell W. Hancock, 4. D. #3, Delaware, Ohio.
Twin Lakes Silver Fox Farms Company, Kent, Ohio.
Beaver State Fur Farms, Marshfield, Oreg.
D. M. Haskin, Dendee, Oreg.
Kauffman Bros. Fur Farm, McMinnville, Oreg.
McKenzie Silver Black Fox Ranch, Rainbow, Oreg.
Oregon Silver Fox & Fur Farm, Hood River, Oreg.
Pelican Bay Fur Farm, Rocky Point, Oreg.
Portland Silver Fox & Fur Farms, Portland, Oreg.
H. B. Plumer, Barnesboro, Pa.
Samuel B. Walker, Coplay, Pa.
Beechwood Farm, R. D. #91, Providence, R. I.
James Valley Silver Fox Company, Huron, S. Dak.
David Johnson, White Rock, S. Dak.
Salt Lake Blue Fox & Fur Farm, R. D. #7, Murray, Utah.
Stephens Mink Ranch, Wytheville, Va.
Davis Fur Farms, Inc., St. Johnsbury, Vt.
Howard H. Reid, Barre, Vt.
Alderwood Fur Farm, Winlock, Wash.
Auburndale Fox Farm, R. D. #2, Box 36, Auburn, Wash.
Albert T. Bailey, Bothell, Wash.
Blue Moon Farm, Seattle, Wash.
Chinook Fox Farm, Walla Walla, Wash.
W. D. Church, Walla Walla, Wash.
R. P. Daniel, R. D. #3, Everett, Wash.
Federal Distributing Company, Seattle, Wash.
J. B. Forrest, Startup, Wash.
A. L. Hamilton, R. D. #3, Chehalis, Wash.
Grant Harper, R. D. #2, Sprague, Wash.
M. R. Holley, Silverton, Wash.
Ihde Fox & Fur Farms, Soap Lake, Wash.
Jack Island Fur Company, R. D. #1, Anacortes, Wash.
Morgan & Witt, Marysville, Wash.
L. A. Mose, R. D. #1, Olympia, Wash.
Mt. Baker Silver Fox Farm, Concrete, Wash.
Murk Bros. FOX & Fur Farm, Woodland, Wash.
J. B. Muschang, Seattle, Wash.
Northwestern Silver Fox & Fur Farm, South Tacoma, Wash.
Puget Sound Minkery, 4. D. #3, Everett, Wash.
Chas. Shye, Pe Ell, Wash.
Taco a Silver Fox Farm, R. D. #3, Box 66, Tacoma, Wash.
Tide-to-Timberline Fur Farms, Startup, Wash.
Tudor Mink Ranch, Spokane, Wash.
United States Silver Fox Corporation, Spokane, Wash.
B. J. Vroman, Methow, Wash.
Aug. Westman, R. D. #1, Carnation, Wash.

MINKS (Continued)

Wilgo Fur Farm, Spruce, Wash.
W. A. Wright, Elk, Wash.
Bex Fox Ranch, Rolling Prairie, Wis.
F. S. Daneberg, Chippewa Falls, Wis.
Island Silver Fox Company, Cumberland, Wis.
Earl O. Kaeser, Stratford, Wis.
Land O' Lakes Fox & Fur Company, R. D. #2, Eau Claire, Wis.
M. J. Lepley, New Butler, Wis.
Milwaukee Silver Black Fox Company, Menomonie Falls, Wis.
A. B. Rugee, Whitefish Bay, Wis.
H. F. Schroeder, Marinette, Wis.
E. F. Stabnon, North Freedom, Wis.
Martin Vallisky, Collins, Wis.
Geo. Winter, Box 76, Earl, Wis.
Dell Dearth, Big Piney, Wyo.
Roy Lozier, Moran, Wyo.

MUSKRATS:

Capt. A. W. Bowser, Sheffield Mills, Nova Scotia, Canada.
Ernest R. Conrad & Associates, California Bldg., Denver, Colo.
Edward C. Davis, Burley, Idaho.
Monalaho Muskrat Ranch, Addie, Idaho.
Chas. E. Paine, Parma, Idaho.
Wilson Fur Farms, Cambridge, Idaho.
Geo. H. Moyer, R. D. #1, Mendota, Ill.
Everett Williamson, R. D. #1, Monmouth, Ill.
J. N. Knox, R. D. #2, Monroeville, Ind.
H. Keighly-Peach, 1023 Madison Avenue, Baltimore, Md.
Chas. H. Seward, Cambridge, Md.
Greenleaf K. Bartlett, Belgrade Lakes, Me.
Camblasse Fur Corporation, Lincoln, Me.
Raymond L. Emerson, Island Falls, Me.
A. W. Millet, Linclon, Me.
M. H. Ramsdell, Burlington, Me.
C. M. Record, Naples, Me.
Soldier Pond Fur Corporation, Soldier Pond, Me.
Alcnzo Basker, 5039 23d Street, Detroit, Mich.
Chas. Burley, R. D. #4, North Branch, Mich.
F. W. Cole, 1015 Lake Drive, Grand Rapids, Mich.
Herman D. Ellerman, Jackson, Mich.
Great Northern Muskrat Farms, Ypsilanti, Mich.
B. G. Horling, Coopersville, Mich.
Earl Hummel, 1121 Seminary Street, Kalamazoo, Mich.
Alfred Linsley, R. D. #1, Hopkins, Mich.
Ted McComb, Marion, Mich.

MUSKRATS (Continued)

F. S. Matthews, Box 265, Newaygo, Mich.
Mt. Forest Fur Farm, Mt. Forest, Mich.
Harmon C. Owen, R. D. #3, Mayville, Mich.
A. T. Story, Trenton, Mich.
A Van Dusen, Caledonia, Mich.
B. C. Hermanson, Garfield, Minn.
M. P. Massnere, Aitkin, Minn.
Minneapolis Silver Fox & Fur Farms, Minneapolis, Minn.
John H. Pohl, R. D. #2, Grand Rapids, Mich.
A. F. Scrimshaw, St. Vincent, Minn.
B. Tippman, Caledonia, Minn.
W. S. Ulman, Millville, Minn.
Clarence Vande Zande, Preston, Minn.
Dr. W. F. Pauly's Pheasantry, Kahoka, Mo.
Bitter Root Fur Farms, Corvallis, Mont.
Lone Mountain Silver Fox & Fur Ranch, Bozeman, Mont.
Northern Fox Farm, Billings, Mont.
Battle Mountain Fox Farm, Battle Mountain, Nev.
Cole-Black Fox & Fur Farm, Alder Creek, N. Y.
Harry H. Colpitts, Binghampton, N. Y.
E. L. Cross, R. D. #55, Clymer, N. Y.
F. E. Dawley, Fayetteville, N. Y.
James A. Dean, Boonville, N. Y.
C. E. DeWolf, Alder Creek, N. Y.
Fur Farms Publishing Company, Utica, N. Y.
Noble P. Randel, Oneida, N. Y.
Charles S. Sherman, South Schroon, N. Y.
Silver Lake Fur Farm, Perry, N. Y.
Abner P. Smith, Lake George, N. Y.
Tranquility Park Fox Ranch, 437 W. 125th Street, New York, N. Y.
Donald S. Crowe, R. D. #1, Paterson, N. J.
John Brennan, R. D. #2, Box 34, Dunseith, N. Dak.
Red Fox Farm, Fairdale, N. Dak.
Lowell W. Hancock, R. D. #3, Delaware, Ohio.
Nelson Heen, Archibold, Ohio.
National Fur Farm Company, Cleveland, Ohio.
Chas. C. Combs, Lakeview, Oreg.
D. M. Haskin, Dundee, Oreg.
Machon's Silver Fox Farm, Portland, Oreg.
Multnomah Fur Farm, Portland, Oreg.
Herwig Netter, Aurora, Oreg.
Oregon Silver Fox & Fur Farm, Hood River, Oreg.
Lake Pleasant Fur Farms, Erie, Pa.
Anderson & Son, White Bluffs, Wash.
Bailey Muskrat Farm, Outlook, Wash.

MUSKRAT (Continued)

Albert Bailey, Bothell, Wash.
Bold Island Fur Farm, Inc., Seattle, Wash.
Cliff's Fish & Fur Farm, Star Route, Box 50, South Bellingham, Wash.
J. B. Forrest, Startup, Wash.
John J. Gray, R. D. #2, Port Townsend, Wash.
Grant Harper, R. D. #2, Sprague, Wash.
Lakewood Fur Farms, Seattle, Wash.
Murk Bros. Fox & Fur Farm, Woodland, Wash.
C. A. Olson, Redmond, Wash.
Jessie Simmons, Carnation, Wash.
Superior Fur Farm, Anacortes, Wash.
Tide-to-Timberline Fox Farms, Startup, Wash.
August Westman, R. D. #1, Carnation, Wash.
Ajax Fox & Fur Company, Chippewa Falls, Wis.
Frank Kaufman, Two Rivers, Wis.
J. G. Norris, Spooner, Wis.
Superior Fox & Fur Company, Superior, Wis.
Dell Dearth, Big Piney, Wyo.
C. W. Hedrick, Grovent, Wyo.
Thomas Tracy, Elk, Wyo.

OPOSSUMS:

Adrian E. Scarron, Box 152, Berryville, Ark.
J. L. Hunsley, R. D. #2, Edinburg, Ill.
Al D. Barber, Hebron, Ind.
Alex and William LaBree, Buffalo, Minn.
Avery Lagerstedt, R. D. #1, Gibbon, Minn.
B. Tippman, Caledonia, Minn.
W. J. Hunt, Aurora, Mo.

OTTER:

Gage Bros. & Heinzelman, Lake Itasca, Minn.
Dr. W. F. Pauly's Pheasantry, Kahoka, Mo.
Donald S. Crowe, R. D. #1, Paterson, N. J.
Blue Moon Farm, Seattle, Wash.

RABBITS*

RACCOONS:

Adrian E. Scarron, Box 152, Berryville, Ark.
C. E. Benchard, Ste. Anne de la Pocatiere, Quebec, Canada.
Silverwood Fur Farms, Durham, Ontario, Canada.
Ernest R. Conrad & Associates, California Bldg., Denver, Colo.
John Covill, R. D. #5, Box 125, Danbury, Conn.
Alvin E. Kemp, R. D. #1, Box 69, Stafford Springs, Conn.

RACCOONS (Continued)

Hugh Blonatt, R. D. #2, Box 19, Shelbyville, Ill.
Geo. H. Moyer, R. D. #1, Mendota, Ill.
Everett Williamson, R. D. #1, Monmouth, Ill.
Winthrop Harbor Fox Ranch, Zion, Ill.
Al D. Barber, Hebron, Ind.
Christ Krieger, Hammond, Ind.
Prof. C. A. Neal, Jonesboro, Ind.
P. J. Swartzentruben, Shipshewana, Ind.
Frank W. Dobberstein, R. D. #5, Box 61, Estherville, Iowa.
C. J. Harvey, Brooks, Iowa.
Hawkeye Itasca Silver Fox Company, Vinton, Iowa.
William M. Hoaglin, Hillsboro, Iowa.
William Jenn, Ionia, Iowa.
Wm. E. Seydel, R. D. #2, Oxford, Iowa.
Tony Wellman, West Point, Iowa.
Ferdinand Wilslef, R. D. #4, DeWitt, Iowa.
Auto Rest Park, Carmel, Me.
Dorothy Burgess, Bethel, Me.
Ralph F. Flagg, Livermore Falls, Me.
Simon Gagnon, R. D. #42, Clinton, Me.
Daniel I. Gould, Box 545, Bangor, Me.
C. B. Grover, R. D. #1, Oxford, Me.
Mrs. C. V. Hodgkins, R. D. #5, Caribou, Me.
Elwyn L. Huff, Box 116, West Buxton, Me.
Geo. E. Langley, Green Lake, Me.
Oscar Lawson, Hampden Highlands, Me.
Ulysses G. Lovett, Box 116, Cornish, Me.
Frank L. Miles, Winslow, Me.
Archie S. Pratt, Farmington, Me.
M. H. Ramsdell, Burlington, Me.
Thos. B. Reed, Lincoln, Me.
G. H. Stetson, Monmouth, Me.
Alton V. Worthley, Hale, Me.
A. J. Paradise, 1564 Pleasant Street, Fall River, Mass.
Wm. S. Bailey, Box 54, Benzonia, Mich.
Edwin Beyer, R. D. #3, Saginaw, Mich.
Central Silver Black Fox Farm, Weidman, Mich.
Claude Clark Cole, Grand Rapids, Mich.
B. G. Horling, Coopersville, Mich.
George James, Montrose, Mich.
F. S. Mathews, Box 265, Newaygo, Mich.
Elmer E. Milbourne, Eaton Rapids, Mich.
W. H. Mohr, Tekonsha, Mich.
Peters & Case, Box 516, Big Rapids, Mich.
Albert H. Pioch, South Haven, Mich.
Clare H. Prey, R. D. #1, Box 98, Capac, Mich.

RACCOONS (Continued)

Royal Fur Farms, La Branch, Mich.
Harold M. Schoneman, R. D. #1, Box 49, Capac, Mich.
Duane O. Taft, R. D. #2, Adrian, Mich.
Tip Top Silver Black Fox Company, Port Huron, Mich.
Ernest Troop, St. Johns, Mich.
A. Van Dusen, Caledonia, Mich.
Arlington Silver Fox Farms, Red Wing, Minn.
Florence Biebighauser, R. D. #1, Box 75, Newport, Minn.
Mike Bourgoyne, R. D. #2, Elk River, Minn.
Breezy Point Silver Foxes, Inc., Pequot, Minn.
L. M. Bussey, 2203 Como Avenue, West, St. Paul, Minn.
William Craig, Aitkin, Minn.
Hubert Diers, R. D. #2, Box 44, Howard Lake, Minn.
Floyd W. Elg, R. D. #3, Comfrey, Minn.
Leonard Erdahl, Frost, Minn.
Chas. Frost, Box 46, Lakeland, Minn.
Theodore Holly, R. D. #2, Box 18, Montgomery, Minn.
Johns Brothers, R. D. #4, Box 117, New Ulm, Minn.
A. F. Keye, R. D. #1, Red Wing, Minn.
M. King, R. D. #2, Le Sueur, Minn.
Kirk's Fur Ranch, R. D. #1, Box 93, Clarkfield, Minn.
Jack H. Krauss, R. D. #1, Ottertail, Minn.
Alex and William LaBree, Buffalo, Minn.
Avery Lagerstedt, R. D. #1, Gibbon, Minn.
J. A. Lundbom, R. D. #3, Lake Lillian, Minn.
Maeser Fur Farms, Inc., Hackensack, Minn.
Leo Michael, Jordan, Minn.
Joseph L. Miller, Jr., Waconia, Minn.
Minneapolis Silver Fox & Fur Farms, Minneapolis, Minn.
Arthur Muhlenbeck, R. D. #9, Fergus Falls, Minn.
John H. Newman, Hastings, Minn.
C. P. Paulson, Box 104, Courtland, Minn.
Ed C. Pierce, R. D. #4, Isanti, Minn.
John H. Pohl, R. D. #2, Grand Rapids, Minn.
Leslie Reimer, Convick, Minn.
Rest Island Silver Fox Farms, Inc., White Bear Lake, Minn.
Dave Riebel, Delano, Minn.
Adam Rolf, Norwood, Minn.
John M. Sandmeyer, R. D. #4, Box 17, St. James, Minn.
A. F. Scrimshaw, St. Vincent, Minn.
W. T. Splittstoesser, R. D. #2, Claremont, Minn.
Clarence Vande Zande, Preston, Minn.
W. J. Hunt, Aurora, Mo.
Pike Johnson, Gilliam, Mo.
Dr. W. F. Pauly's Pheasantry, Kahoka, Mo.

RACCOONS (Continued)

J. F. Beckett, Butte, Mont.
Bitter Root Fur Farms, Corvallis, Mont.
Donald S. Crowe, R. D. #1, Paterson, N. J.
Chas. N. Roberts, Meredith, N. H.
Alaska Silver Fox Farm, Lake Placid, N. Y.
Mrs. Anna Bellinger, Amsterdam, N. Y.
M. J. Brownell, Mt. Upton, N. Y.
J. M. Burdick, R. D. #6, Lockport, N. Y.
Harry H. Colpitts, Binghamton, N. Y.
S. H. Dean, R. D. #9, Penn Yan, N. Y.
Fur Farms Publishing Company, Utica, N. Y.
Forestbury Silver Fox Farm, Inc., Port Jervis, N. Y.
Edward W. Quirk, R. D. #4, Amsterdam, N. Y.
Reynard Fur Farm, Inlet, N. Y.
Charles S. Sherman, South Schroon, N. Y.
Abner P. Smith, Lake George, N. Y.
Red Fox Farm, Fairdale, N. Dak.
Peter O. Thoe, Fordville, N. Dak.
Joseph A. Beat, R. D. #3, Bellevue, Ohio.
Alonzo Clyde, Londonville, Ohio.
Karl W. Kloepper, Bucyrus, Ohio.
L. S. Russell, Cardington, Ohio.
Twin Lakes Silver Fox Farms Company, Kent, Ohio.
D. J. Anderson, Brighton, Oreg.
Kauffman Bros. Fur Farm, McMinnville, Oreg.
Oregon Silver Fox & Fur Farm, Hood River, Oreg.
Portland Silver Fox & Fur Farms, Portland, Oreg.
F. E. Smith, Lebanon, Oreg.
Samuel B. Walker, Coplay, Pa.
David Johnson, White Rock, S. Dak.
Salt Lake Blue Fox & Fur Farm, R. D. #7, Murray, Utah.
Marr D. Simons, Box 133, Murray, Utah.
Al Boss, R. D. #1, Box 8, Ottertall, Vt.
Cold River Kennels & Fur Farm, Bellows Falls, Vt.
Theodore Hubbard, North Clarendon, Vt.
Floyd McClellan, Cambridge, Vt.
S. H. Osner, Taftsville, Vt.
B. G. Slade, North Remington, Vt.
Homer B. Wilson, White River Junction, Vt.
Stephens Mink Ranch, Wytheville, Va.
J. B. Forrest, Startup, Wash.
A. L. Hamilton, R. D. #3, Chehalis, Wash.
Grant Harper, R. D. #2, Sprague, Wash.
Northwestern Silver Fox & Fur Farm, South Tacoma, Wash.
Tacoma Silver Fox Farm, R. D. #3, Box 66, Tacoma, Wash.
B. J. Vroman, Methow, Wash.

RACCOONS (Continued)

Island City Silver Fox Company, Cumberland, Wis.
E. F. Stabnon, North Freedom, Wis.
Garden of Eden Raccoon Farm, Eden, Wis.

SKUNKS:

H. G. McArthur, Danville, Ark.
Ka-Wig-A-Mog Fur Farms, Pakesley, Ontario, Canada.
Ernest R. Conrad & Associates, California Bldg., Denver, Colo.
Alvin E. Kemp, R. D. #1, Box 89, Stafford Springs, Conn.
J. L. Hunsley, R. D. #2, Edinburg, Ill.
Geo. H. Moyer, R. D. #1, Mendota, Ill.
Everett Williamson, R. D. #1, Monmouth, Ill.
Mrs. Lyal Hemphill, R. D. #5, Estherville, Iowa.
Bert Iverson, Box 74, Rake, Iowa.
William Jenn, Estherville, Iowa.
Frank W. Sobberstein, R. D. #5, Estherville, Iowa.
Simon Gagnon, R. D. #42, Clinton, Me.
Mrs. C. V. Hodgkins, R. D. #5, Caribou, Me.
Elwyn L. Huff, West Buxton, Me.
Marshall F. Laviolette, East Long Meadow, Mass.
B. G. Herling, Coopersville, Mich.
Joe Meyler, R. D. #10, Box 135, Kalamazoo, Mich.
A. E. Reefman, R. D. #1, Holton, Mich.
Frank Skinner's Sons, R. D. #1, Gowen, Mich.
A. Van Dusen, Caledonia, Mich.
Roy R. Brown, Tenney, Minn.
Leonard Erdahl, Frost, Minn.
Anond Helle, R. D. #1, Box 57 1/2, Laporte, Minn.
Kirks Fur Ranch, R. D. #1, Box 93, Clarkfield, Minn.
Thomas Knipfer, Northome, Minn.
Alex and William LaBree, Buffalo, Minn.
Avery Lagerstedt, R. D. #1, Gibbon, Minn.
J. A. Lundbom, R. D. #3, Lake Lillian, Minn.
Maeser Fur Farms, Inc., Hackensack, Minn.
Leo Michael, Jordan, Minn.
Northern Raccoon Fur Farm, Fairfax, Minn.
John H. Pohl, R. D. #2, Grand Rapids, Minn.
Joe M. Sandmeyer, R. D. #4, Box 17, St. James, Minn.
W. T. Splittstoesser, R. D. #2, Claremont, Minn.
LeRoy Staples, Rosy, Minn.
B. Tippman, Caledonia, Minn.
Silas Carroll, Hahatonka, Mo.
Dr. W. F. Pauly's Pheasantry, Kahoka, Mo.
Bitter Root Fur Farm, Corvallis, Mont.
William Hugelie, Deer Lodge, Mont.

SKUNKS (Continued)

Donald S. Crowe, R. D. #1, Paterson, N. J.
C. E. DeWolf, Alder Creek, N. Y.
Somin D. Kran, Kerhonkson, N. Y.
F. K. Nixon, Geneseo, N. Y.
Reynard Fur Farm, Inlet, N. Y.
H. L. Crooks, Ayr, N. Dak.
Earl O. Nelson, Englevale, N. Dak.
Red Fox Farm, Fairdale, N. Dak.
Kauffman Bros. Fur Farm, McMinnville, Oreg.
North Pacific Silver Fox Farms, Mohler, Oreg.
H. E. Rodenbough, Umatilla, Oreg.
J. E. Waggener, Brownsville, Oreg.
Isaac Boyer, Annville, Pa.
Salt Lake Blue Fox & Fur Farm, R. D. #7, Murray, Utah.
Al Boss, R. D. #1, Box 8, Ottertail, Vt.
Theodore Hubbard, North Clarendon, Vt.
Evergreen Fur Farm, 4. D. #8, Spokane, Wash.
Grant Harper, R. D. #2, Sprague, Wash.
Puget Sound Minkery, R. D. #3, Everett, Wash.
Spokane Silver Fox Farm, Spokane, Wash.
Bex Fox Ranch, Rolling Prairie, Wis.

SQUIRRELS:

Guy Hann, Centralia, Ill.
Claude Clark Cole, Grand Rapids, Mich.
Alex and William LaBree, Buffalo, Minn.
Donald S. Crowe, R. D. #1, Paterson, N. J.
Avery Lagerstedt, R. D. #1, Gibbon, Minn.

SOUTH AMERICAN CHINCHILLAS:

M. F. Chapman, Corner Oak Street and Palm Avenue, Inglewood, Calif.
Portland Silver Fox & Fur Farms, Portland, Oreg.